GB

1/4” Network High Speed Dome, PTZ, 12x, Day&Night

PLD-2012PTZ

eneo

Contents

Part 1 – Installation Guide.....3

Part 2 – User Manual 43

Part 1

Installation Guide

Version 1.7

Preface

Information given in this manual was current when published. The company reserves the right to revise and improve its products. All specifications are subject to change without notice.

Notice

This manual provides installation information for the outdoor Integrated High Speed Dome Camera. To work with the Dome Cameras, any installer or technician must have the following minimum qualifications:

- A basic knowledge of CCTV systems and components
- A basic knowledge of electrical wiring and low-voltage electrical hookups
- A basic knowledge of network system setting
- Have read this manual completely

Copyright

Under copyright laws, the contents of this installation guide may not be copied, photocopied, translated, reproduced or reduced to any electronic medium or machine-readable format, in whole or in part, without prior written permission of the company.

Important Information

Before proceeding, please read and observe all instructions and warnings in this manual. Retain this manual with the original bill of sale for future reference and, if necessary, warranty service. When unpacking your unit, check for missing or damaged items. If any item is missing, or if damage is evident, DO NOT INSTALL OR OPERATE THIS PRODUCT. Contact your dealer for assistance.

Regulation

CE	This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

	This symbol on the product or on its packaging indicates that this product shall not be treated as household waste in accordance with Directive 2002/96/EC. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By proper waste handling of this product you ensure that it has no negative consequences for the environment and human health, which could otherwise be caused if this product is thrown into the garbage bin. The recycling of materials will help to conserve natural resources. For more details information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

	Compliance is evidenced by written declaration from our suppliers, assuring that any potential trace contamination levels of restricted substances are below the maximum level set by EU Directive 2002/95/EC, or are exempted due to their application.

Safety Instructions

- Read these safety instructions and the operation manual first before you install and commission the camera.
- Keep the manual in a safe place for later reference.
- Protect your camera from contamination with water and humidity to prevent it from permanent damage. Never switch the camera on when it gets wet. Have it checked at an authorized service center in this case.
- Never operate the camera outside of the specifications as this may prevent the camera functioning.
- Do not operate the cameras beyond their specified temperature, humidity or power ratings.
- Operate the camera only at a temperature range of -30°C to +45°C and at a humidity of max. 90%.
- To disconnect the power cord of the unit, pull it out by the plug. Never pull the cord itself.
- Pay attention when laying the connection cable and observe that the cable is not subject to heavy loads, kinks, or damage and no moisture can get in.
- Do not attempt to disassemble the camera board from the dome.
- The warranty becomes void if repairs are undertaken by unauthorized persons.
  Do not open the camera housing.
- Never point the camera towards the sun with the aperture open.
  This can destroy the sensor.
- Installation, maintenance and repair have to be carried out only by authorized service centers. Before opening the cover disconnect the unit from mains input.
- Contact your local dealer in case of malfunction.
- Only use original parts and original accessories from Videor E. Hartig GmbH.
- Do not use strong or abrasive detergents when cleaning the dome.
  Use a dry cloth to clean the dome surface.In case the dirt is hard to remove, use a mild detergent and wipe gently.
- All openings provided in the housing for assembly purposes must be closed and/or sealed.
- **The installer is responsible for ensuring that the degree of protection as per the technical specifications is upheld, e.g. by using all enclosed gasket seals and O-rings, by waterproofing the cable exits with silicon or through laying the cable in such a way that the cable does not act as a „gutter”.**
- **During assembly, care must be taken to ensure that existing seals are correctly inserted and are not displaced as a result of assembly.**

  You must not continue to use damaged seals.

NOTE:

This is a class A digital device. This digital device can cause harmful interference in a residential area; in this case the user may be required to take appropriate corrective action at his/her own expense.

Table of Contents - Part 1

1. Introduction 8
2. Standard Package Contents 9
3. Camera Setups and Cable Connections 10
3.1 Preparations for Dome Camera Setups 10
3.2 Dome Camera Setups 13
3.2.1 Switch Definition 13
3.3 Cables and Connections 14
3.3.1 22-Pin Data Cable 14
3.3.2 22-Pin Connector Definition 15
3.3.3 Cable Wiring and Connection 16
3.3.4 Ethernet Cable Connection 17
4. Dome Camera Installation 18
4.1 Camera Dimensions 19
4.2 Optional Accessories 20
4.3 Ceiling Mounting with Straight Tube 26
4.4 Wall Mount 28
4.4.1 Compact Pendent Mount 28
4.4.2 Standard Pendent Mount 31
4.4.3 Wall Box Mounting 33
4.5 Corner Mount 35
4.5.1 Corner Standard Mounting Plate/Corner Plate Mini 35
4.5.2 Corner Thin/Wide Box Mounting 37
4.6 Pole Mount 39
4.6.1 Pole Thin/Wide Direct Mounting 39
4.6.2 Pole Thin/Wide Box Mounting 41
5. System Expansion 43
5.1 Connecting with Power Box 43

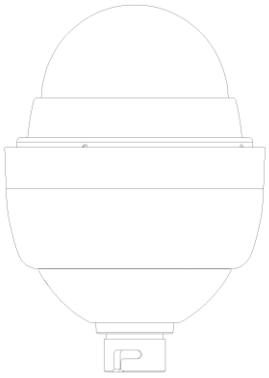
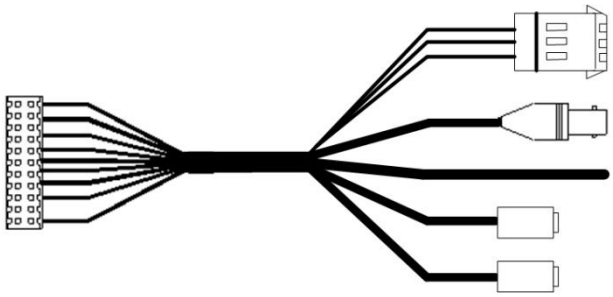
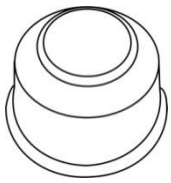
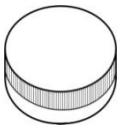
1. Introduction

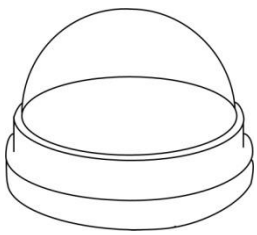
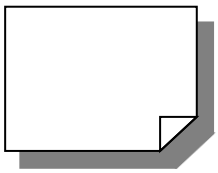
With weather resistant feature, the High Speed Dome Camera is applicable to outdoor installation. The Dome Camera supports one cabling for easy installation, and can be integrated with various digital surveillance products, such as DVRs, Control Keyboards, and accessories for a total surveillance solution. In addition, large set of built-in protocols provide connectivity to other surveillance systems. The built-in protocols include DSCP, Pelco, VCL, Philips, AD-422, etc., which allow the Speed Dome Camera to be integrated with other suppliers' surveillance systems.

2. Standard Package Contents

Before proceeding, please check the box contains the items listed here. If any item is missing or has defects, DO NOT install or operate the product and contact your dealer for assistance.

Network Model

<table>
<tr>
<td> 
Dome Camera with Outdoor Mount Kit</td>
<td colspan="2"> 
Data Cable for Power Supply, Video, Audio and Alarm (AC 24V)</td>
</tr>
<tr>
<td> 
Waterproof Rubber</td>
<td>
M3 Standard Screw (x1)
M3 Security Screw (x1)
M5 Standard Screw (x1)
M5 Security Screw (x1)</td>
<td> 
Lubricant

Security Torx</td>
</tr>
<tr>
<td> 
Optical Cover</td>
<td> 
Quick Guide</td>
<td>
CD: Operation Manuals</td>
</tr>
</table>

3. Camera Setups and Cable Connections

Before installing or connecting the Dome Camera, please refer to this section and complete preparations for Dome Camera setups and various switch settings.

3.1 Preparations for Dome Camera Setups

The following installation procedure is for the outdoor Dome Camera equipped with the sunshield. Please follow the steps below to install dome cover and detach the Outdoor Mount Kit from the camera body for switch setups.

STEP 1

Unpack the Dome Camera's package and take out the Dome Camera unit.

STEP 2

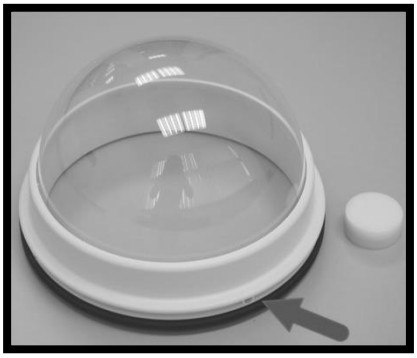
Turn the Dome Camera upside down and place it on the cushion. Then rotate the Outdoor Mount Kit counterclockwise and detach it from the camera body.

STEP 3

Remove the protective cover and PE sheet from the camera.

STEP 4

Smear some lubricant on the surface of the dome cover's waterproof rubber ring.



Then attach the dome cover to the camera body by first aligning the center point on the dome cover with one of the four holes on the dome camera housing as shown in the figure.

STEP 5

Gently press down the dome cover with two hands on the side of it. Make sure the two Slotted Screws and the screw hole on the dome cover align with the three holes on the camera housing.

DO NOT press the dome cover from the top of it as shown in the figure; this might cause damage to the Dome Camera.

STEP 6

Screw the dome cover and camera body together with the supplied M3 Standard/Security Screw. For fastening the Security Screw, please use the supplied Security Torx.

STEP 7

Then tighten the two Slotted Screws on the camera housing as shown in the figure by turning them *counterclockwise*.

STEP 8

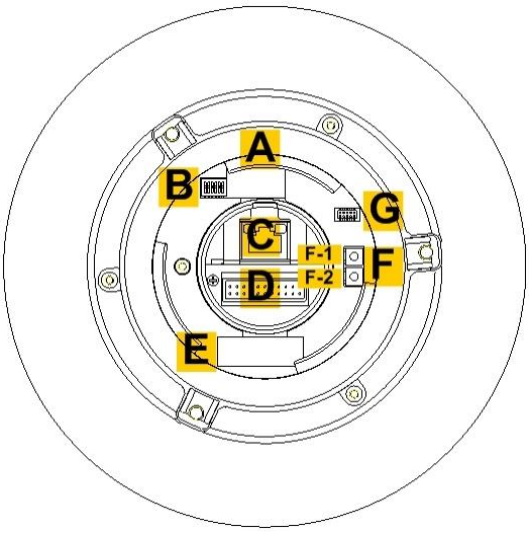
Set the switches located on the bottom of the Dome Camera. Refer to section 3.2 Dome Camera Setups for detailed information about various switch setting.

3.2 Dome Camera Setups

Before connecting the Dome Camera to other devices of CCTV system, please complete the Dome Camera's ID and communication switch settings. These switches are located on the bottom of the Dome Camera.

3.2.1 Switch Definition

Please refer to the following figure and table for switch location and definitions.



Network Model

A	None	
B	Communication Switch (Reserved)	
C	RJ-45 Connector	
D	22-Pin Connector	
E	None	
F	F-1	Reboot Button
	F-2	Factory Reset Button
G	ISP Connector (for FW upgrade)	

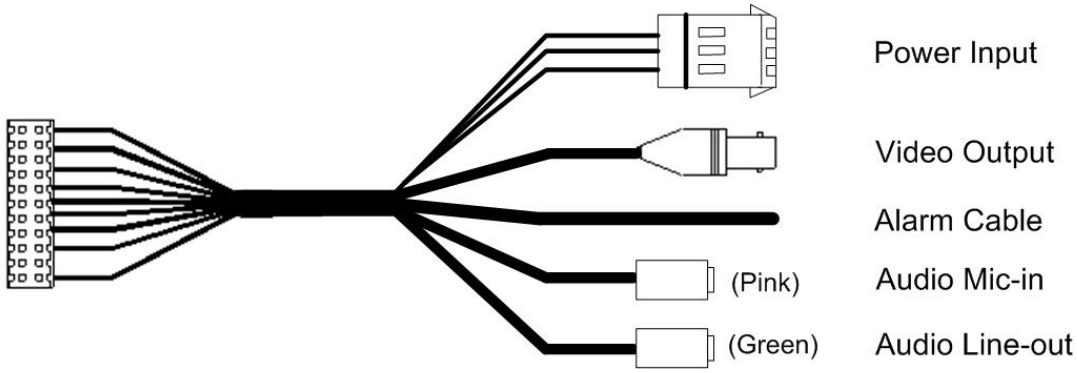
NOTE: Please NO NOT change the factory default Communication Switch settings of the network Speed Dome Camera.

3.3 Cables and Connections

3.3.1 22-Pin Data Cable

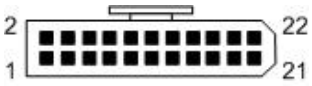
The analog and network Speed Dome Camera's Data Cables are illustrated respectively as shown below.

The network Speed Dome Camera's Data Cable is illustrated as follows.



3.3.2 22-Pin Connector Definition

With the 22-pin connector, installers can simply connect the power, video and RS-485 cables to the Dome Camera at once. Particularly, the alarm pins are serviceable for connecting alarm input and output devices, such as alarm sensors, sirens or flashing lights with the surveillance system. The analog and network Speed Dome Cameras' 22-pin connector definition will also be specified as follows.



The network Speed Dome Camera's 22-pin connector definition is listed below:

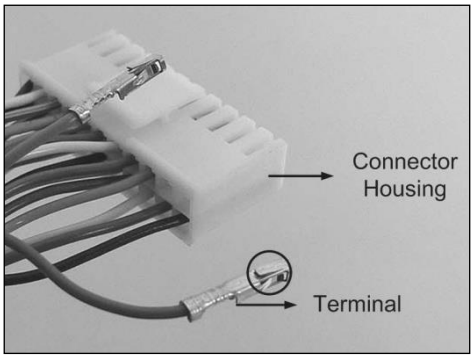
Pin	Definition	Cable
1	AC 24-1/DC (+)	20AWG/18AWG
2	ALM NC	
3	AC 24-2/DC (−)	20AWG/18AWG
4	ALM NO	
5	FG	20AWG/18AWG
6	ALM COM	
7	Audio in	24AWG
8	Audio out	
9	Audio GND	
10	Audio GND	
11	ISOG	

Pin	Definition	Cable
12	ALM-1	
13	ALM-3	
14	ALM-2	
15	ALM-4	
16	Reserved	
17	Reserved	
18	Reserved	
19	Reserved	
20	ALM GND	
21	VGND	20AWG
22	Video	

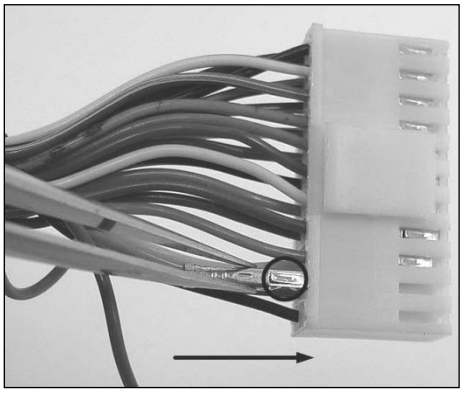
NOTE: For alarm connection, please refer to section 3.3.3 Cable Wiring and Connection.

3.3.3 Cable Wiring and Connection

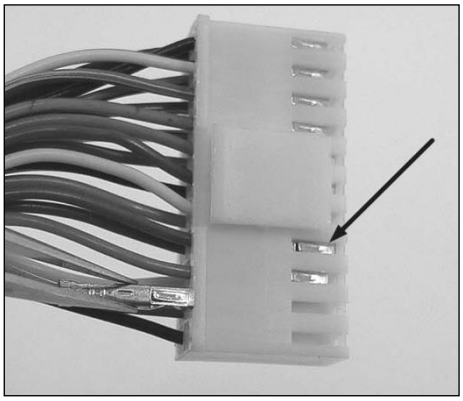
Users may need to conduct cable wiring when: (1) Connecting self-provided cords to the connector housing instead of using the equipped Data Cable or (2) Connecting alarm input and output devices. The table follows will illustrate the way to wire cords into the connector housing.



Insert the terminal into the pin holes on the connector housing, with the hook outward, as indicated in the figure.



To unlock the terminal, press the hook, as indicated in the figure, with a proper tool and pull it out gently.



Connect the 22-pin connector to the Dome Camera.

NOTE: The figure on the right side is for reference only. For the exact figure, Please refer to section 3.2.1 Switch Definition.

3.3.4 Ethernet Cable Connection

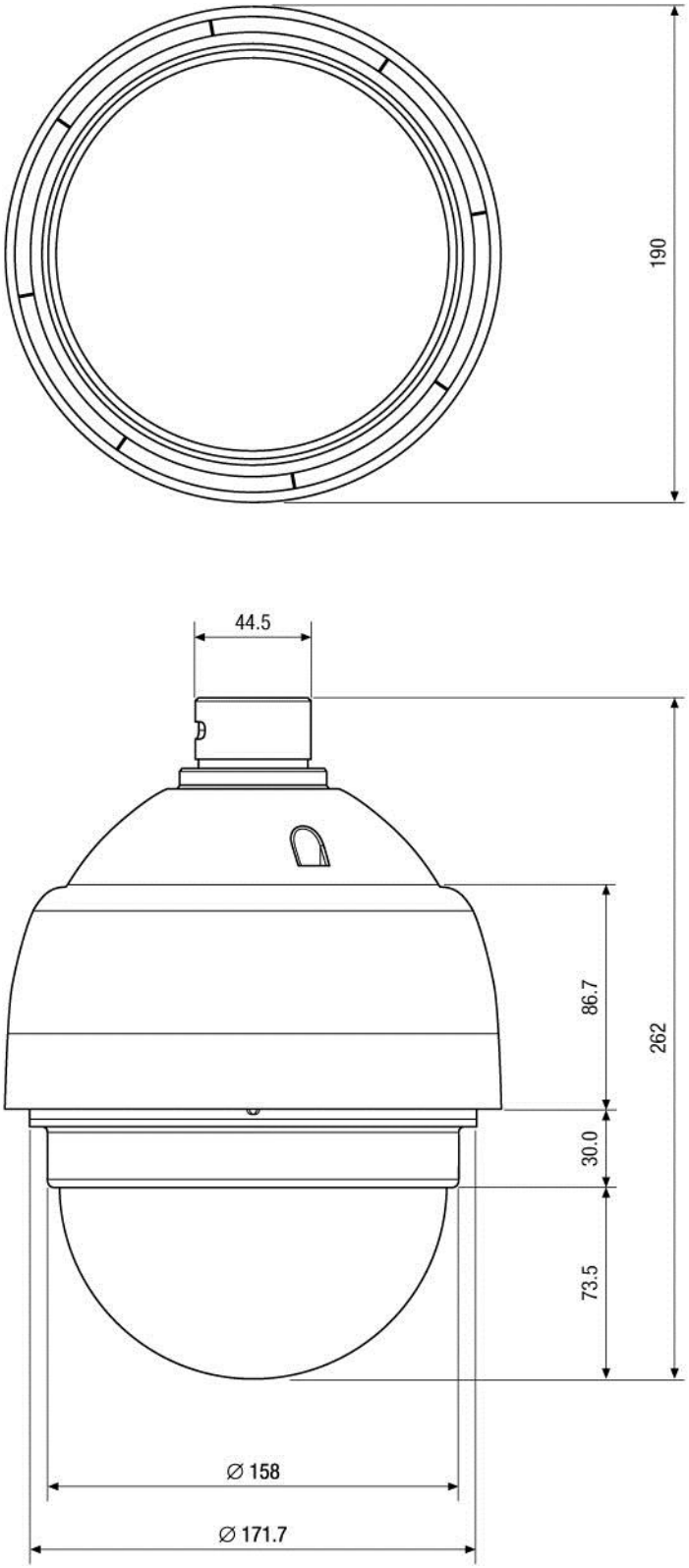
Connect one end of the CAT 5 Ethernet cable to the RJ-45 connector of the network Speed Dome Camera, and the other end of the cable to the network switch or PC.

NOTE: In some cases, you may need use an Ethernet crossover cable when connecting the network Speed Dome Camera directly to the PC.

4. Dome Camera Installation

Basing on user's installation environments, the Dome Camera can be installed on ceiling, on wall or on pole. In the following section, various Dome Camera's installation accessories, installation methods and installation procedures will be described in detail. In addition, the next section will provide the Dome Camera's dimensions for your reference before installation.

4.1 Camera Dimensions



Maße/Dimensions: mm

4.2 Optional Accessories

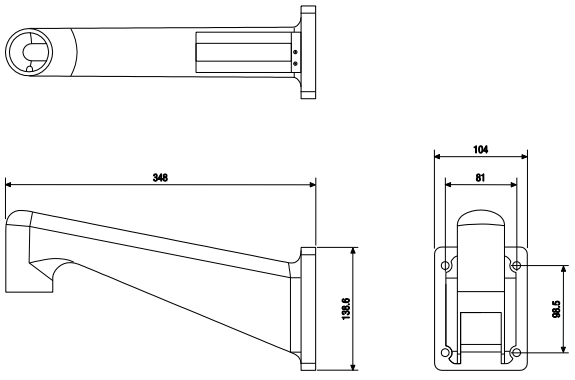
Dome Camera Accessories

Sunshield
Height: 89.9 mm (3.5 inches); Diameter: 190 mm (7.5 inches)

Transparent/Vandal Proof Cover
Diameter: 147 mm (5.8 inches)

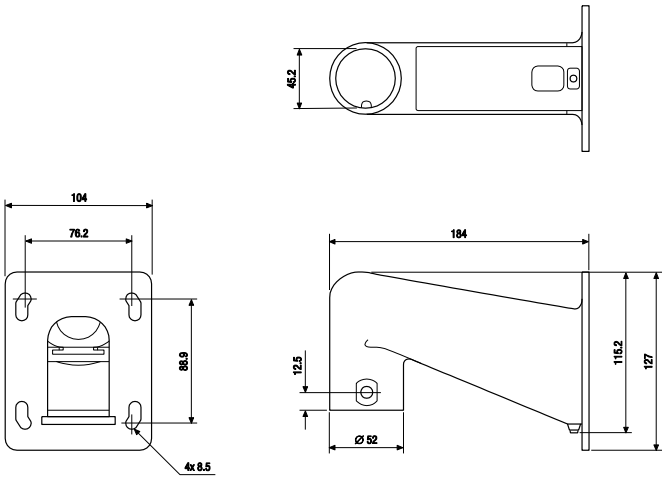
Mounting Accessories

Standard Pendent Mount (Art. No. 200825)
White; 348×104×138.6 mm (13.7×4.1×5.5 inches); 1.5 kg (3.3 lbs); Diameter: 45 mm (1.8 inches). Supplied with M8x12 screw x1, spring washer-8 x1, pendent tube washer x1, rubber washer-8 x1 and sponge x2.



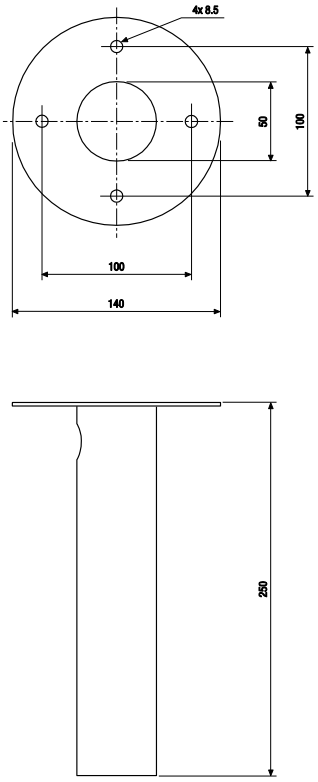
Dimensions: mm

Compact Pendent Mount (Art. No. 200826)
184×104×127 mm (7.24×4.09×5 inches); 0.6 kg (1.2 lbs)
Supplied with rubber washer-8 x1, pendent tube washer x1, spring washer-8 x1 and M8x12 screw x1.



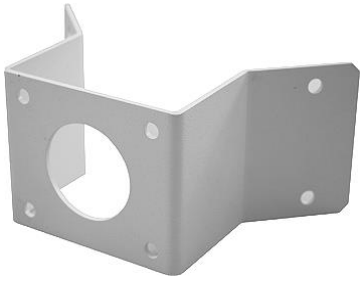
Dimensions: mm

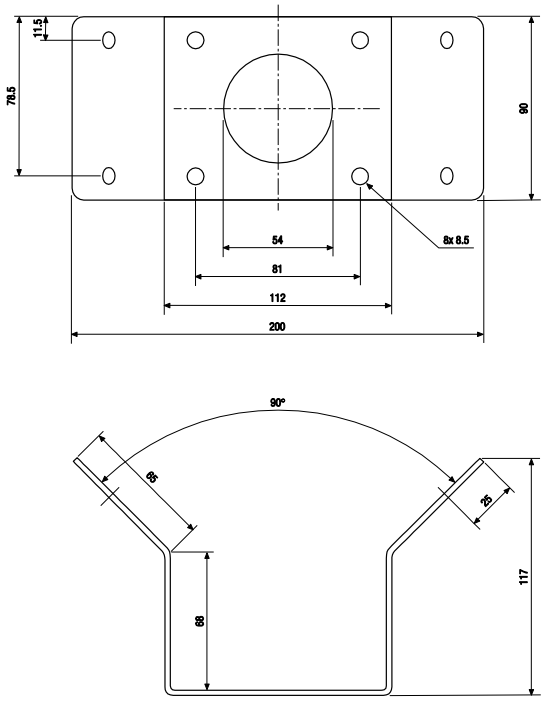
Straight Tube (Art. No. 200827)
Iron, Height: 250 mm (9.8 inches) ,Diameter: 50 mm (2 inches)
1 kg (2.2 lbs), Supplied with M8x12 screw x1, spring washer-8 x1, pendent tube washer x1, rubber washer-8 x1 and waterproof rubber x1.



Dimensions: mm

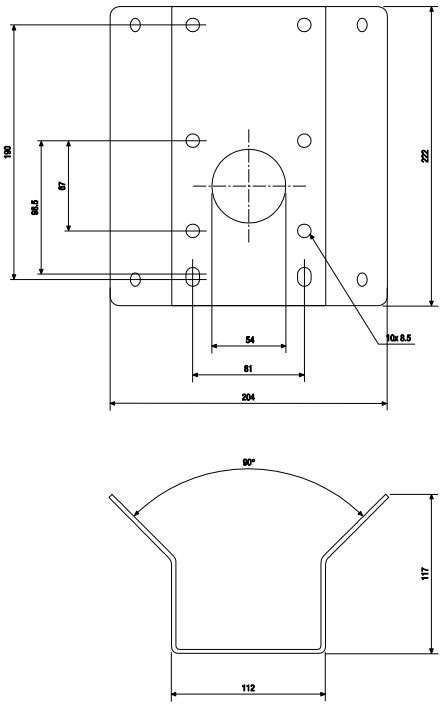
Corner Plate Mini (Art. No. 200831)
For mounting with Compact Pendent Mount.
200(L)×90(H)×117(D) mm (7.87×3.54×4.6 inches);
Supplied with washer-8 x4, spring washer-8 x4, M8x16 screw x4 and M8 nut x4.





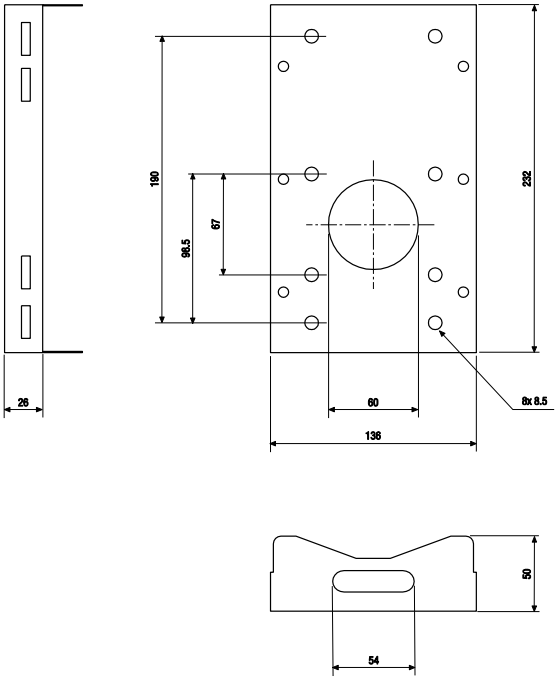
Dimensions: mm

Corner Standard Mounting Plate (Art. No. 200830)
204(L)×222(H)×117(D) mm (8×8.74×4.6 inches); 2 kg (4.4 lbs);
Supplied with washer-8 x4, spring washer-8 x4, M8x16 screw x4, and M8 nut x4.



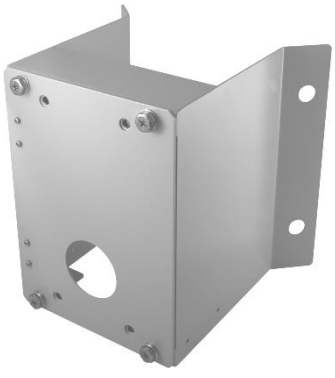
Dimensions: mm

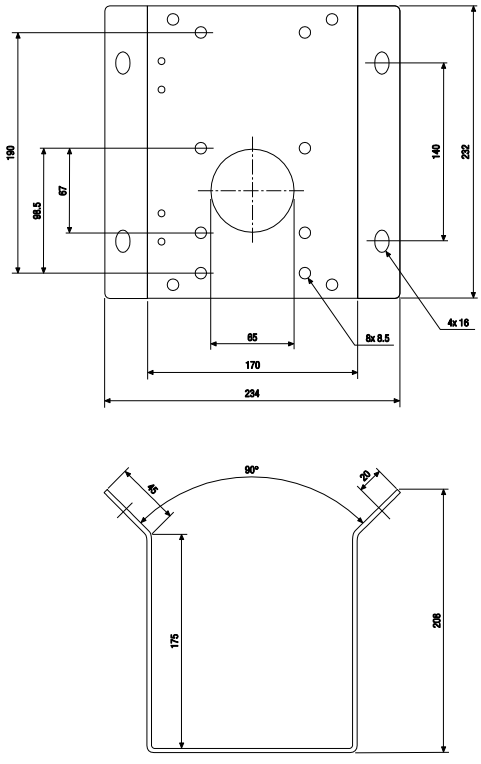
Pole Thin Direct Mounting (Art. No. 200834)
232(H)×136(W)×50(D) mm (9.1×5.4×2 inches); Diameter: 112~130 mm (4.4~5 inches); 0.7 kg (1.6 lbs). Supplied with stainless steel straps x4, M8x16 screw x4, washer x4 and spring washer-8 x4.



Dimensions: mm

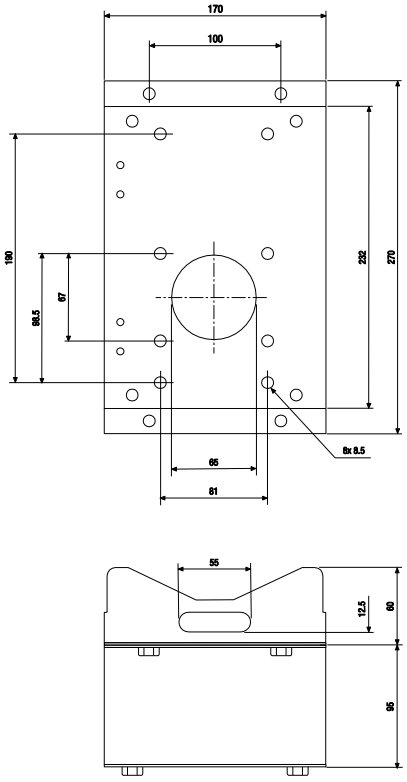
Corner Wide Box Mounting (Art. No. 200832)
232(H)×234(W)×208(D) mm (9.1×9.2×8.2 inches); 2.7 kg (6 lbs); Supplied with M8x16 screw x4, washer-8 x4, and spring washer-8 x4.
Power Box can be set inside the wide box.





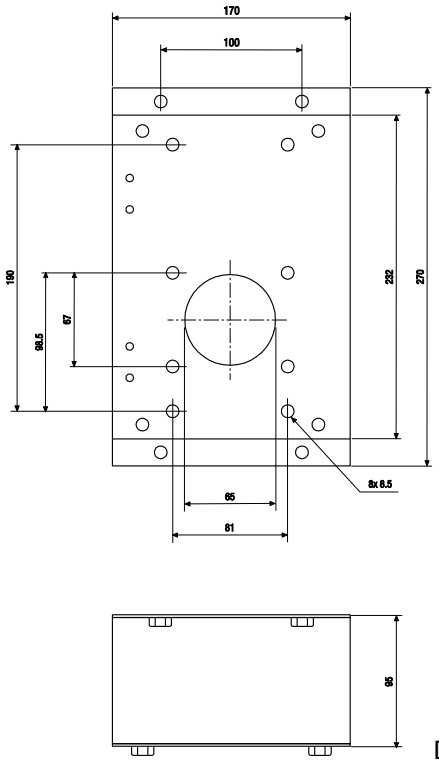
Dimensions: mm

Pole Wide Box Mounting (Art. No. 200835)
270(H)×170(W)×155(D) mm (10.6×6.7×6.1 inches); 3.2 kg (7.1 lbs); Supplied with M8x16 screw x4, washer-8 x4, spring washer-8 x4 and stainless steel straps x4.
Power Box can be set inside the wide box.



Dimensions: mm

Wall Box Mounting (Art. No. 200829)
270(H)×170(W)×95(D) (10.6×6.7×3.7 inches); 2.2 kg (4.84 lbs);
Supplied with M8x16 screw x4, washer-8 x4 and spring washer-8 x4
Power Box can be set inside the wall box.



Dimensions: mm

Stainless Steel Straps For fixing Pole Direct Mounting / Pole Box on the pole. Length: 650 mm (25.6 inches); Width: 12.7mm; Weight: 50g (0.1 lb)

Other Application Accessories

Power Box White, 186.5×147 mm (7.3×5.8 inches); 2.6 kg (5.8 lbs) P1030 (Input: 110~115VAC/Output: 24VAC 72VA) P2030 (Input: 220~230VAC/Output: 24VAC 72VA)

All photos of the accessories are subject to change without notice.

4.3 Ceiling Mounting with Straight Tube

The Straight Tube is available in different length: 25 cm and 50 cm.

Package Contents:

- M8x12 Screw x1
- Spring Washer-8 x1
- Pendent Tube Washer x1
- Rubber Washer-8 x1
- Waterproof Rubber x1

Items Needed:

- Dome Camera
- Outdoor Mount Kit (supplied)
- Data Cable (supplied)
- Ethernet Cable (network Dome Camera)
- Straight Tube and equipped items (optional accessory)
- Waterproof Rubber (supplied)
- M5 Standard/Security Screw (supplied)
- Screws and Screw Anchors for fixing the Straight Tube onto the ceiling (not supplied)

Tools Needed:

- Tool for drilling
- Tool for screwing

Follow the steps to mount the Dome Camera with the Straight Tube.

1) Ensure that the ceiling can support the weight of the Dome Camera and Straight Tube.
2) Make a cable entry hole on the ceiling.
3) Fix the Straight Tube to the ceiling with proper screws and screw anchors.
4) Attach the Waterproof Rubber to the Straight Tube.
5) Run the cable(s) through the Straight Tube with the Data Cable's 22-pin cable coming out of the outlet.

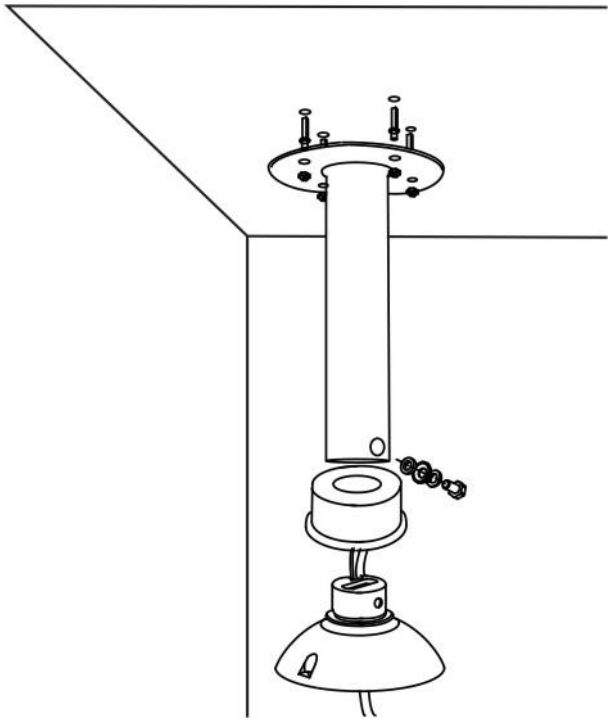
NOTE : After running the cable(s) through the Straight Tube, please block the Tube's outlet with the supplied sponge to avoid insects entering the tube.

6) Thread the cable(s) through the Outdoor Mount Kit and join the Outdoor Mount Kit to the Straight Tube with the supplied screws and washers. Then adjust the Waterproof Rubber to the joint.

7) Connect the cable(s) to the Dome Camera.

8) Join the Dome Camera to the Outdoor Mount Kit with the supplied M5 screw and washers.

Ceiling Mount: Straight Tube + Outdoor Mount Kit



4.4 Wall Mount

The Dome Camera can be mounted on the wall with Compact Pendent Mount, Standard Pendent Mount and Wall Box. Please follow the installation instructions below for mounting the Dome Camera via different ways.

4.4.1 Compact Pendent Mount

Package Contents:

- Rubber Washer-8 x1
- Pendent Tube Washer x1
- Spring Washer-8 x1
- M8x12 Screw x1

Items Needed:

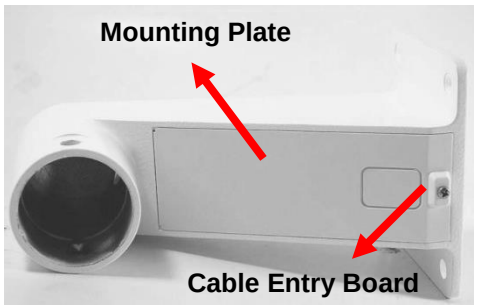
- Dome Camera
- Outdoor Mount Kit (supplied)
- Data Cable (supplied)
- Ethernet Cable (network Dome Camera)
- Compact Pendent Mount and equipped items (optional accessory)
- Waterproof Rubber (supplied)
- M5 Standard/Security Screw (supplied)
- Screws and Screw Anchors for fixing the Compact Pendent Mount (not supplied)

Tools Needed:

- Tool for drilling
- Tool for screwing

Follow the steps below to mount the Dome Camera with the Compact Pendent Mount.

1) Make a cable entry hole on the wall to recess the cables. Otherwise, users could push up the Cable Entry Board on the Compact Pendent Mount's Mounting Plate to place the cables, as shown in the photo below.

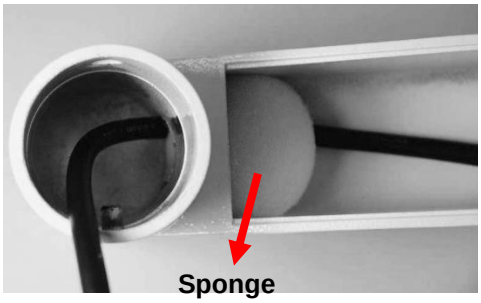


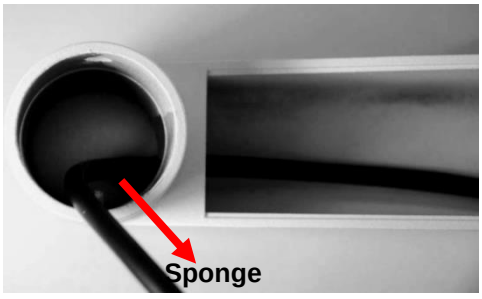
2) Fix the Compact Pendent Mount on the wall with proper screws and screw anchors.

3) Attach the Waterproof Rubber to the Compact Pendent Mount.

4) Run the cable(s) through the Compact Pendent Mount with the Data Cable's 22-pin cable coming out of the outlet.

NOTE: Please block the cable entry hole with the supplied sponge to avoid insects entering the Pendent Mount. The sponge can be placed in two ways as shown in the illustrations below.



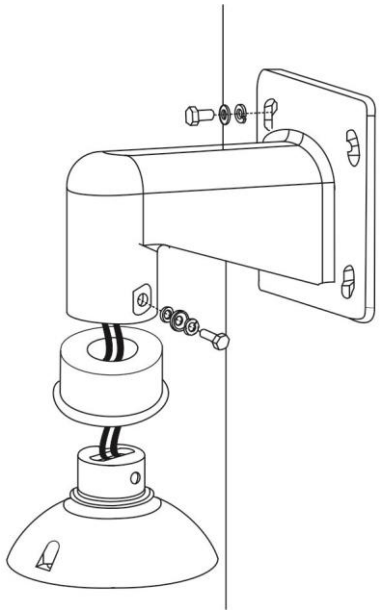


5) Thread the cable(s) through the Outdoor Mount Kit and join the Outdoor Mount Kit to the Compact Pendent Mount with the supplied screws and washers. Then adjust the Waterproof Rubber to the joint.

6) Connect the cable(s) to the Dome Camera.

7) Join the Dome Camera to the Outdoor Mount Kit with the supplied M5 screw and washers.

Wall Mounting: Compact Pendent Mount + Outdoor Mount Kit



4.4.2 Standard Pendent Mount

Package Contents:

- M8x12 Screw x1
- Spring Washer-8 x1
- Pendent Tube Washer x1
- Rubber Washer-8 x1
- Sponge x2

Items Needed:

- Dome Camera
- Outdoor Mount Kit (supplied)
- Data Cable (supplied)
- Ethernet Cable (network Dome Camera)
- Standard Pendent Mount and equipped items (optional accessory)
- Waterproof Rubber (supplied)
- M5 Standard/Security Screw (supplied)
- Screws and Screw Anchors for fixing the Standard Pendent Mount onto the ceiling (not supplied)

Tools Needed:

- Tool for drilling
- Tool for screwing

Follow the steps below to mount the Dome Camera with the Standard Pendent Mount.

1) Make a cable entry hole on the wall to recess the cables. Otherwise, users could push up the cable entry board on the Standard Pendent Mount's mounting plate to place the cables (see the illustration in section 4.4.1 Compact Pendent Mount > Step 1).
2) Fix the Standard Pendent Mount on the wall with proper screws and screw anchors.
3) Attach the Waterproof Rubber to the Standard Pendent Mount.
4) Run the cable(s) through the Standard Pendent Mount with the Data Cable's 22-pin cable coming out of the outlet.

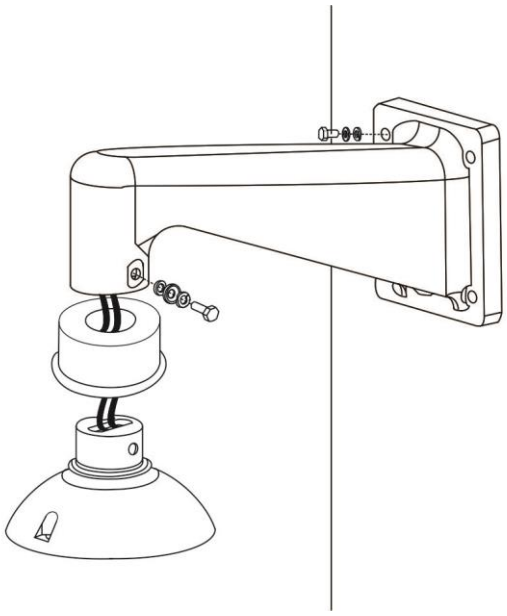
NOTE: Please block the cable entry hole with the supplied sponge to avoid insects entering the Pendent Mount. See the illustrations in section 4.4.1 Compact Pendent Mount > Step 4.

5) Thread the cable(s) through the Outdoor Mount Kit and join the Outdoor Mount Kit to the Standard Pendent Mount with the supplied screws and washers. Then adjust the Waterproof Rubber to the joint.

6) Connect the cable(s) to the Dome Camera.

7) Join the Dome Camera to the Outdoor Mount Kit with the supplied M5 screw and washers.

Wall Mounting: Standard Pendent Mount + Outdoor Mount Kit



4.4.3 Wall Box Mounting

Package Contents:

- M8x16 Screw x4
- Washer-8 x4
- Spring Washer-8 x4

Items Needed:

- Dome Camera
- Outdoor Mount Kit (supplied)
- Data Cable (supplied)
- Ethernet Cable (network Dome Camera)
- Standard/Compact Pendent Mount and equipped items (optional accessory)
- Wall Box Mounting (optional accessory)
- Waterproof Rubber (supplied)
- M5 Standard/Security Screw (supplied)
- Screws and Screw Anchors for fixing the Wall Box Mounting onto the ceiling (not supplied)

Tools Needed:

- Tool for drilling
- Tool for screwing

Follow the steps to mount the Dome Camera with the Standard/Compact Pendent Mount and Wall Box Mounting.

1) Make a cable entry hole on the wall to recess the cable(s).

2) Fix the Wall Box Mounting on the wall with proper screws and screw anchors. Then run the cable(s) through the hole on the Wall Box Mounting with the Data Cable's 22-pin cable coming out.

3) Fasten the Standard/Compact Pendent Mount onto the Wall Box Mounting with the supplied screws and washers. Then thread the cable(s) through the Standard/Compact Pendent Mount with the cable(s) coming out of the Pendent Mount's outlet.

NOTE: Please block the cable entry hole with the supplied sponge to avoid insects entering the Pendent Mount. See the illustrations in section 4.4.1 Compact Pendent Mount > Step 4.

4) Attach the Waterproof Rubber to the Standard/Compact Pendent Mount.

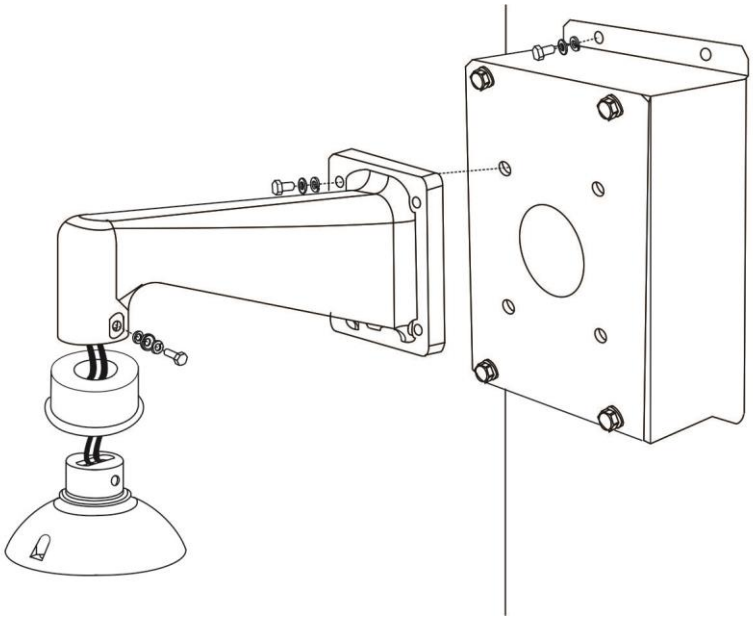
5) Thread the cable(s) through the Outdoor Mount Kit and join the Outdoor Mount Kit to the Standard/Compact Pendent Mount with the supplied screws and washers. Then adjust the Waterproof Rubber to the joint.

6) Connect the cable(s) to the Dome Camera.

7) Join the Dome Camera to the Outdoor Mount Kit with the supplied M5 screw and washers.

Wall Box Mounting:

Wall Box Mounting + Standard/Compact Pendent Mount + Outdoor Mount Kit



4.5 Corner Mount

4.5.1 Corner Standard Mounting Plate/Corner Plate Mini

Package Contents:

- Washer-8 x4
- Spring Washer-8 ×4
- M8x16 Screw x4
- M8 Nut x4

Items Needed:

- Dome Camera
- Outdoor Mount Kit (supplied)
- Data Cable (supplied)
- Ethernet Cable (network Dome Camera)
- Standard/Compact Pendent Mount and equipped items (optional accessory)
- Corner Standard Mounting Plate/Corner Plate Mini (herein collectively called “Corner Mounting Plate”; optional accessory)
- Waterproof Rubber (supplied)
- M5 Standard/Security Screw (supplied)
- Screws and Screw Anchors for fixing the Corner Mounting Plate (not supplied)

Tools Needed:

- Tool for drilling
- Tool for screwing

Follow the steps below to mount the Dome Camera with the Corner Mounting Plate and Standard/Compact Pendent Mount.

1) Make a cable entry hole on the wall to recess the cable(s).

2) Fix the Corner Mounting Plate on the corner of the wall with proper screws and screw anchors. Then run the cable(s) through the hole on the Corner Mounting Plate with the Data Cable’s 22-pin cable coming out.

3) Fasten the Standard/Compact Pendent Mount onto the Corner Mounting Plate with the supplied screws and washers. Then thread the cable(s) through the Standard/Compact Pendent Mount with the cable(s) coming out of the Pendent Mount’s outlet.

NOTE: Please block the cable entry hole with the supplied sponge to avoid insects entering the Pendent Mount. See the illustrations in section 4.4.1 Compact Pendent Mount > Step 4.

4) Attach the Waterproof Rubber to the Standard/Compact Pendent Mount.

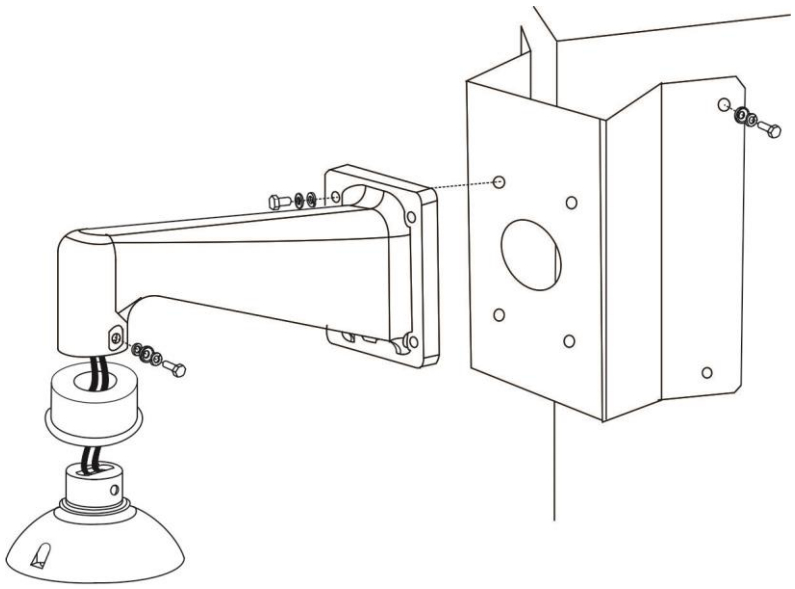
5) Thread the cable(s) through the Outdoor Mount Kit and join the Outdoor Mount Kit to the Standard/Compact Pendent Mount with the supplied screws and washers. Then adjust the Waterproof Rubber to the joint.

6) Connect the cable(s) to the Dome Camera.

7) Join the Dome Camera to the Outdoor Mount Kit with the supplied M5 screw and washers.

Corner Wall Mounting:

Corner Standard/Mini Mounting Plate + Standard/Compact Pendent Mount + Outdoor Mount Kit



4.5.2 Corner Thin/Wide Box Mounting

Package Contents:

- M8x16 Screw x4
- Washer-8 x4
- Spring Washer-8 x4

Items Needed:

- Dome Camera
- Outdoor Mount Kit (supplied)
- Data Cable (supplied)
- Ethernet Cable (network Dome Camera)
- Standard/Compact Pendent Mount and equipped items (optional accessory)
- Corner Thin/Wide Box (optional accessory)
- Waterproof Rubber (supplied)
- M5 Standard/Security Screw (supplied)
- Screws and Screw Anchors for fixing the Corner Thin/Wide Box (not supplied)

Tools Needed:

- Tool for drilling
- Tool for screwing

Follow the steps below to mount the Dome Camera with the Corner Thin/Wide Box and Standard/Compact Pendent Mount.

1) Make a cable entry hole on the wall to recess the cable(s).

2) Fix the Corner Thin/Wide Box on the corner of the wall with proper screws and screw anchors. Then run the cable(s) through the hole on the Corner Mounting Plate with the Data Cable's 22-pin cable coming out.

3) Fasten the Standard/Compact Pendent Mount onto the Corner Thin/Wide Box with the supplied screws and washers. Then thread the cable(s) through the Standard/Compact Pendent Mount with the cable(s) coming out of the Pendent Mount's outlet.

NOTE: Please block the cable entry hole with the supplied sponge to avoid insects entering the Pendent Mount. See the illustrations in section 4.4.1 Compact Pendent Mount > Step 4.

4) Attach the Waterproof Rubber to the Standard/Compact Pendent Mount.

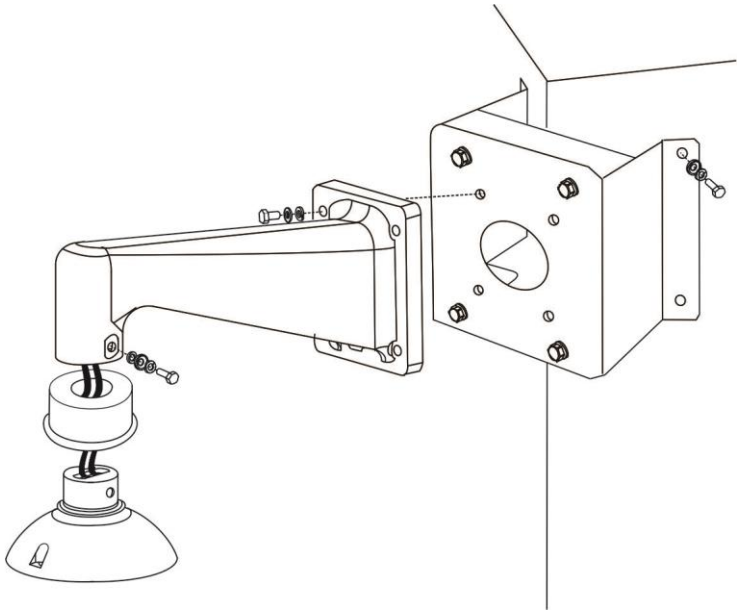
5) Thread the cable(s) through the Outdoor Mount Kit and join the Outdoor Mount Kit to the Standard/Compact Pendent Mount with the supplied screws and washers. Then adjust the Waterproof Rubber to the joint.

6) Connect the cable(s) to the Dome Camera.

7) Join the Dome Camera to the Outdoor Mount Kit with the supplied M5 screw and washers.

Corner Box Mounting:

Corner Thin/Wide Box + Standard/Compact Pendent Mount + Outdoor Mount Kit



4.6 Pole Mount

4.6.1 Pole Thin/Wide Direct Mounting

Package Contents:

- M8x16 Screw x4
- Washer x4
- Stainless Steel Straps x4
- Spring Washer-8 x4

Items Needed:

- Dome Camera
- Outdoor Mount Kit (supplied)
- Data Cable (supplied)
- Ethernet Cable (network Dome Camera)
- Standard/Compact Pendent Mount and equipped items (optional accessory)
- Pole Thin/Wide Direct Mounting (optional accessory)
- Waterproof Rubber (supplied)
- M5 Standard/Security Screw (supplied)
- Stainless Steel Straps for fixing the Pole Thin/Wide Direct Mounting (optional accessory)

Tools Needed:

- Stainless Strap Cutter
- Tool for screwing

Follow the steps below to mount the Dome Camera with the Pole Thin/Wide Direct Mounting and Standard/Compact Pendent Mount.

1) Fasten the Pole Thin/Wide Direct Mounting on a pole with equipped stainless straps.

2) Run the cable(s) through the hole on the Pole Thin/Wide Direct Mounting with the Data Cable's 22-pin cable coming out.

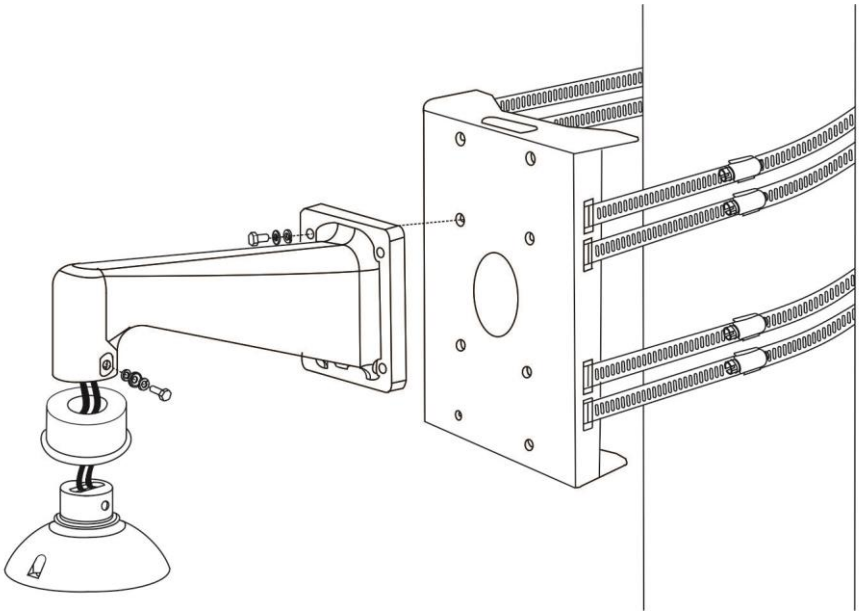
3) Fasten the Standard/Compact Pendent Mount onto the Pole Thin/Wide Direct Mounting with the supplied screws and washers. Then thread the cable(s) through the Standard/Compact Pendent Mount with the cable(s) coming out of the Pendent Mount's outlet.

NOTE: Please block the cable entry hole with the supplied sponge to avoid insects entering the Pendent Mount. See the illustrations in section 4.4.1 Compact Pendent Mount > Step 4.

4) Attach the Waterproof Rubber to the Standard/Compact Pendent Mount.
5) Thread the cable(s) through the Outdoor Mount Kit and join the Outdoor Mount Kit to the Standard/Compact Pendent Mount with the supplied screws and washers. Then adjust the Waterproof Rubber to the joint.
6) Connect the cable(s) to the Dome Camera.
7) Join the Dome Camera to the Outdoor Mount Kit with the supplied M5 screw and washers.

Pole Direct Mounting:

Pole Thin/Wide Direct Mounting + Standard/Compact Pendent Mount + Outdoor Mount Kit



4.6.2 Pole Thin/Wide Box Mounting

Package Contents:

- M8x16 Screw x4
- Washer-8 x4
- Spring Washer x4,
- Stainless Steel Straps x4

Items Needed:

- Dome Camera
- Outdoor Mount Kit (supplied)
- Data Cable (supplied)
- Ethernet Cable (network Dome Camera)
- Standard/Compact Pendent Mount and equipped items (optional accessory)
- Pole Thin/Wide Box Mounting (optional accessory)
- Waterproof Rubber (supplied)
- M5 Standard/Security Screw (supplied)
- Stainless Steel Straps for fixing the Pole Thin/Wide Box Mounting (optional accessory)

Tools Needed:

- Stainless Strap Cutter
- Tool for screwing

Follow the steps below to mount the Dome Camera with the Pole Thin/Wide Box and Standard/Compact Pendent Mount.

1) Fasten the Pole Thin/Wide Box on a pole with equipped stainless straps.

2) Run the cable(s) through the hole on the Pole Thin/Wide Box Mounting with the Data Cable's 22-pin cable coming out.

3) Fasten the Standard/Compact Pendent Mount onto the Pole Thin/Wide Box Mounting with the supplied screws and washers. Then thread the cable(s) through the Standard/Compact Pendent Mount with the cable(s) coming out of the Pendent Mount's outlet.

NOTE: Please block the cable entry hole with the supplied sponge to avoid insects entering the Pendent Mount. See the illustrations in section 4.4.1 Compact Pendent Mount > Step 4.

4) Attach the Waterproof Rubber to the Standard/Compact Pendent Mount.

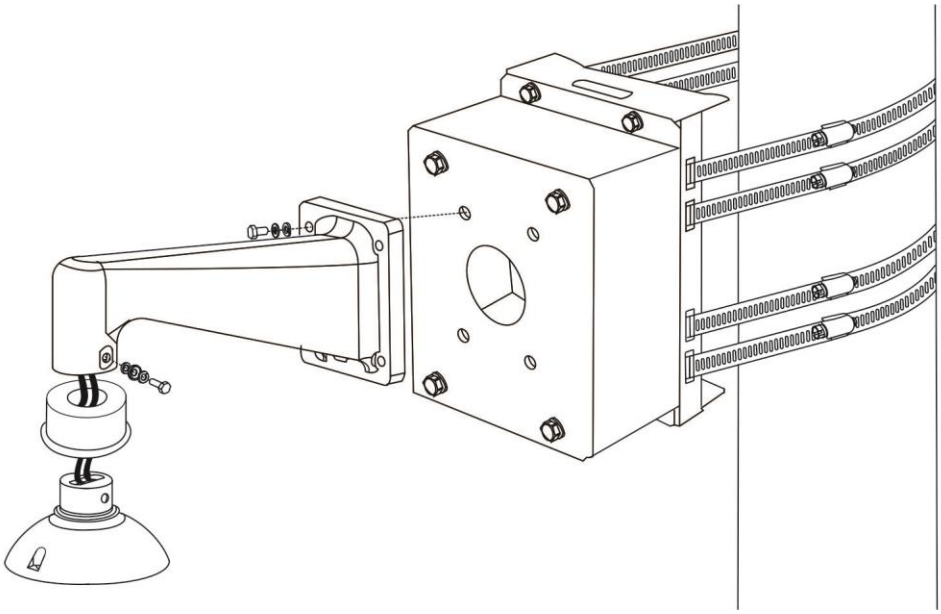
5) Thread the cable(s) through the Outdoor Mount Kit and join the Outdoor Mount Kit to the Standard/Compact Pendent Mount with the supplied screws and washers. Then adjust the Waterproof Rubber to the joint.

6) Connect the cable(s) to the Dome Camera.

7) Join the Dome Camera to the Outdoor Mount Kit with the supplied M5 screw and washers.

Pole Box Mounting:

Pole Thin/Wide Box + Standard/Compact Pendent Mount + Outdoor Mount Kit

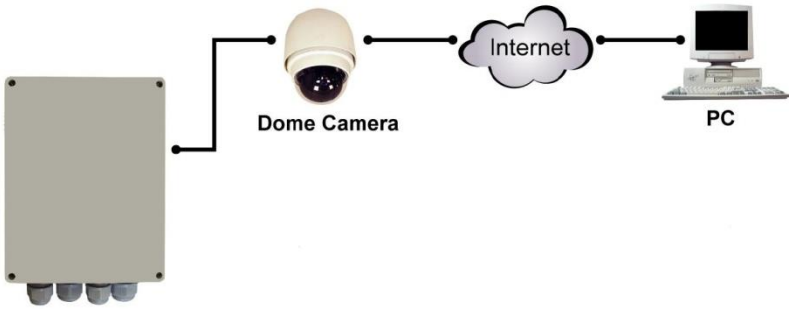


5. System Expansion

5.1 Connecting with Power Box

A power box contains a 24VAC adapter, two terminal blocks (for communication and power) and one alarm board. With an IP66 case, the Power Box is ideal for outdoor installation environment. Two models are available: 100~115VAC power input (P1030) and 220~230VAC (P2030). Additionally, users can either connect one Dome Camera to one power box and to Internet or to other control devices (DVR, Control Keyboard and monitors), as shown in the diagrams below. For more detailed information, please refer to the power box user's manual.

Connecting the Dome to the Power Box and Internet



Part 2

User Manual

Version 1.4

Table of Contents – Part 2

1. Overview 46
1.1 Package Contents 47
1.2 Switch/Connector Definition 48
2. Preparations for Dome Camera Setup 49
2.1 System Requirements 49
2.2 Cable Connection 50
3. Configuration & Operation 52
3.1 Browser-based Viewer Introduction 52
3.2 Home Page 54
3.3 System Related Settings 57
3.3.1 Host Name and System Time Setting 58
3.3.2 Security 60
3.3.3 Network 71
3.3.4 DDNS 81
3.3.5 Mail 83
3.3.6 FTP 84
3.3.7 Application (Alarm Settings) 85
3.3.8 Motion Detection 92
3.3.9 Storage Management 99
3.3.10 Recording 102
3.3.11 File Location 103
3.3.12 View Log File 104
3.3.13 View User Information 105
3.3.14 View Parameters 107
3.3.15 Factory Default 108
3.3.16 Software Version 109
3.3.17 Software Upgrade 110
3.4 Video and Audio Streaming Settings 113
3.4.1 Video Resolution and Video Deinterlacing Function 113
3.4.2 Video Compression 115
3.4.3 Video OCX Protocol 117
3.4.4 Video Frame Skip 118
3.4.5 Audio Mode and Bit Rate Settings 119
3.5 PTZ Settings 121
3.5.1 Preset Programming 121
3.5.2 Cruise Programming 123

3.5.3 Auto Pan Programming 125
3.5.4 Sequence Line Programming 127
3.5.5 Home Function 130
3.5.6 Tilt Angle Settings 132
3.5.7 Privacy Mask Settings 133
3.5.8 Camera— Exposure 135
3.5.9 Camera—WB Mode 137
3.5.10 Camera—Misc 1 (Miscellaneous Setups Menu 1) 139
3.5.11 Camera—Misc 2 (Miscellaneous Setups Menu 2) 142
3.5.12 Default Settings 144
3.6 Logout 145
Appendix A: Technical Specifications 146
Appendix B: Internet Security Settings 149
Appendix C: Deleting the Existing DC Viewer 152
Appendix D: DC Viewer Download Procedure 155
Appendix E: Install UPnP Components 157
Appendix F: SD Card Installation Guide 160

1. Overview

The network Speed Dome Camera transmits digital video and audio data using wire connection. Live video can be monitored and recorded from window-based computer via network.

The video encoder supports real-time Main Profile H.264 D1 resolution which compresses the image size up to 40% off. Simultaneous dual streams, H.264/H.264 and H.264/MJPEG, are available for various network applications via speeding or limited bandwidth. Better image quality and high resolution are delivered by IP support. Additionally, 3D de-interlaced technology provides superior image quality. It eliminates the “combing” effect due to scene change and performs more stabilized image.

With IP solution, multiple and authorized users can view the immediate image from any location through network even using a standard web-browser. It enables users to access and remote the camera without at specific locations.

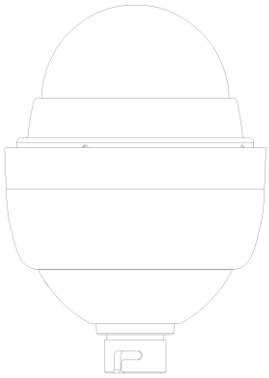
Features

- 12x Optical Zoom
- 12x Digital Zoom
- Simultaneous dual streams: H.264 and MJPEG
- D1 Real-time Resolution
- 3D de-interlaced video image
- Two-way audio support
- Removable IR Cut Filter
- Motion Detection
- Wide Dynamic Range (D-WDR)
- 2D/ 3D Noise Reduction
- 650 TVL High Resolution

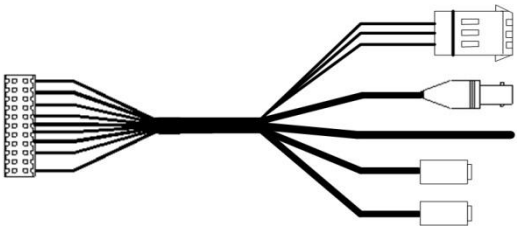
1.1 Package Contents

Please check the box contains the items listed here. If any item is missing or has defects, DO NOT install or operate the product and contact your dealer for assistance.

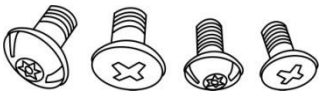
Outdoor Dome Camera Package



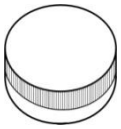
Dome Camera with Outdoor Mount Kit



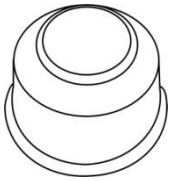
Data Cable for Power Supply, Video, Audio and Alarm (AC 24V)



M3 Standard Screw (x1)
M3 Security Screw (x1) *
M5 Standard Screw (x1)
M5 Security Screw (x1) *

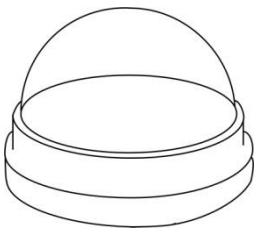


Lubricant

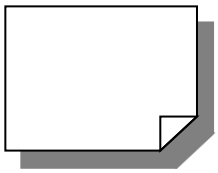


Waterproof Rubber

Security Torx*



Optical Cover



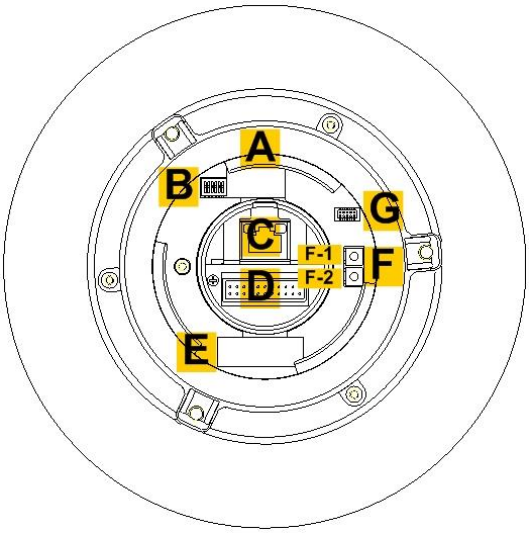
Quick Guide

CD: Operation Manuals

***Optional: For Vandal Proof Cover only.**

1.2 Switch/Connector Definition

There are various switches and connectors located on the Dome Camera's back plate as shown in the figures below. Please refer to the diagram and table accompanied with for use of each switch/connector.



Outdoor Model

A	**None**	
B	**Communication Switch (Reserved)**	
C	**RJ-45 Connector**	
D	**22-Pin Connector**	
E	**None**	
F	**F-1**	**Reboot Button**
	F-2	**Factory Reset Button**
G	**ISP Connector (for FW upgrade)**	

NOTE: DO NOT change the network Speed Dome Camera's Communication Switch factory default settings.

2. Preparations for Dome Camera Setup

Before logging in, please complete power, alarm (if available) and network connections and check system requirements. For further details and instructions on cable connection, please refer to the following sections.

2.1 System Requirements

To perform the network Speed Dome Camera via web browser, please ensure your PC is in good network connection, and meet system requirement as described below.

Items	Minimum Requirement
Personal Computer	1. Intel® Pentium® IV, 3 GHz or higher, Intel® Core™2 Duo, 2 GHz or higher 2. 1 GB RAM or more 3. AGP graphics card 64 MB RAM, DirectDraw
Operating System	Windows VISTA/ Windows XP/ Windows 7
Web Browser	Microsoft Internet Explorer 6.0 or later Firefox Chrome Safari
Network Card	10Base-T (10 Mbps) or 100Base-TX (100 Mbps) operation
Viewer	ActiveX control plug-in for Microsoft IE

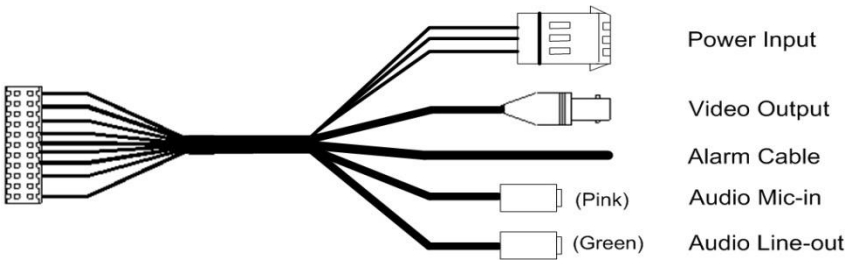
2.2 Cable Connection

Data Cable Connection

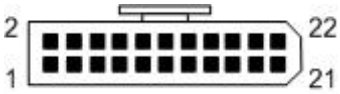
The outdoor model is supplied with an AC 24V Data Cable.

- **Outdoor Dome Camera**

  AC 24V Data Cable



The network Speed Dome Camera's 22-pin connector definition is listed as shown below.



Pin	Definition	Cable
1	AC 24-1/DC (+)	20AWG/18AWG
2	ALM NC	
3	AC 24-2/DC (−)	20AWG/18AWG
4	ALM NO	
5	FG	20AWG18AWG
6	ALM COM	
7	Audio in	24AWG
8	Audio out	
9	Audio GND	
10	Audio GND	
11	ISOG	

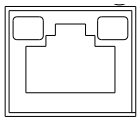
Pin	Definition	Cable
12	ALM-1	
13	ALM-3	
14	ALM-2	
15	ALM-4	
16	Reserved	
17	Reserved	
18	Reserved	
19	Reserved	
20	ALM GND	
21	VGND	20AWG
22	Video	

Ethernet Cable Connection

Use of Category 5 Ethernet cable is recommended for network connection; to have best transmission quality, cable length shall not exceed 100 meters. Connect one end of the Ethernet cable to the RJ-45 connector on the Dome Camera's back plate, and the other end of the cable to the network switch or PC.

NOTE: In some cases, you may need use an Ethernet crossover cable when connecting the IP Camera directly to the PC.

Check the status of the link indicator and activity indicator LEDs; if the LEDs are unlit, please check LAN connection.



Green Link Light indicates good network connection.
Orange Activity Light flashes for network activity indication.

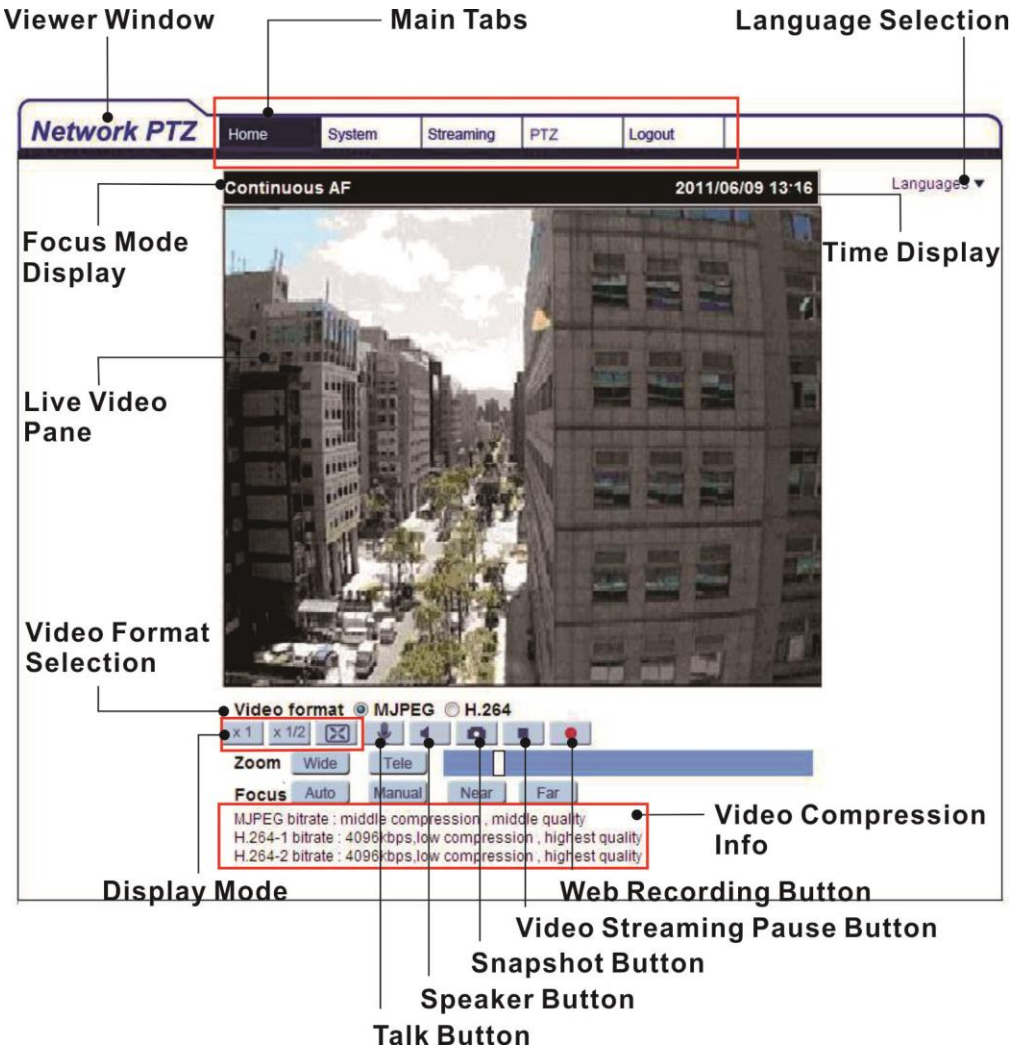
3. Configuration & Operation

The network Speed Dome Camera is provided with a user-friendly browser-based configuration interface, and a free bundled iCMS for video playback and recording. In this chapter, information about main page introduction, system related settings and camera settings will be described in detail.

For further information about iCMS software, please refer to 6. iCMS Software Introduction and iCMS user manual.

3.1 Browser-based Viewer Introduction

The figure below shows the main page of the network Speed Dome Camera user interface.



There are five tabs: Home, System, Streaming, PTZ and Logout on the top panel.

Home

Users can monitor live video of the targeted area.

System Setting

The Administrator can set host name, system time, root password, network related settings, etc. Further details will be interpreted in section 5.3 System Related Settings.

Streaming Setting

The Administrator can modify video resolution and rotate type and select video compression mode in this page.

PTZ Setting

Users are allowed to program Preset Point(s), Cruise Line(s), Auto Pan Path(s) and Sequence Line(s) via PTZ controls, and adjust various camera parameters including Auto Exposure (AE), White Balance (WB), Back Light Compensation (BLC), Sharpness, Exposure Compensation, Digital Zoom, etc.

Logout

Click on the tab to re-login the network Speed Dome Camera with another username and password.

3.2 Home Page

In the Home page, there are several function buttons below the displayed image.

Multiple Languages Support

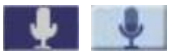
Multiple languages are supported, including English, French, German, Italian, Russian and Simplified Chinese for the viewer window interface.

Digital Zoom Control

In the full screen mode, users can implement digital PTZ by rotating the mouse wheel (for zoom in/out), and drag the mouse into any direction.

Screen Size Adjustment

Image display size can be adjusted to x1/2 and full screen.

Talk button  (on/off)

Talk function allows the local site talks to the remote site. Click on the button to switch it to on/off. Please refer to section 5.3.2 Security: Add user >> Talk/Listen for further details. This function is only open to "User" who has been granted this privilege by the Administrator.

NOTE: This function is only available for User who has granted this privilege by the Administrator.

Speaker button (on/off)

Click on the <Speaker> button to mute/activate the audio.

NOTE: This function is only available for User who has granted this privilege by the Administrator.

Snapshot button (on/off)

Click on the button, and the JPEG snapshots will automatically be saved in the appointed place. The default place of saving snapshots is: C:\. To change the storage location, please refer to section 5.3.11 File Location for further details.

NOTE: For users with Windows 7 operating system, it is required to log on as an Administrator to implement the Web Recording function.

Video Streaming Pause /Restart button (pause/restart)

Click on the <stop> button to disable video streaming, the live video will be displayed as black. Click on the <restart> button to show the live video again.

Web Recording button (on/off)

Click on the <Recording> button and the Live View through the web browsing will be directly recorded to the specific location on the local hard drive, which could be configured in the <File Location> page. The default storage location for the web recording is: C:\. Please refer to 5.3.11 File Location for further details.

NOTE: For users with Windows 7 operating system, it is required to log on as an Administrator to implement the Web Recording function.

Zoom Adjustment

(Wide/ Tele)

Click on the buttons <wide/tele> to control zoom in/out. Or move the cursor closely onto the zoom adjustment bar to the desired zoom ratio.

Focus Adjustment

- **Auto Focus (Continuous AF)**

  Click on the <Auto> button to enable AF mode. In this mode, the camera will keep in focus automatically and continuously regardless of zoom changes or any view changes. The Focus status will also be displayed above the live video pane as shown below.

- **Manual button**

  Click on the <Manual> button, and users can adjust focus manually via Near/Far buttons.

- **Near/Far buttons**

  Click on the <Manual> button first, and users can adjust focus manually via <near> and <far> buttons. The status will also be displayed above the screen as shown below.

Pan/Tilt Control

Users can implement pan/tilt control by first moving the cursor to the live video pane; then left click and drag the pointer in any direction.

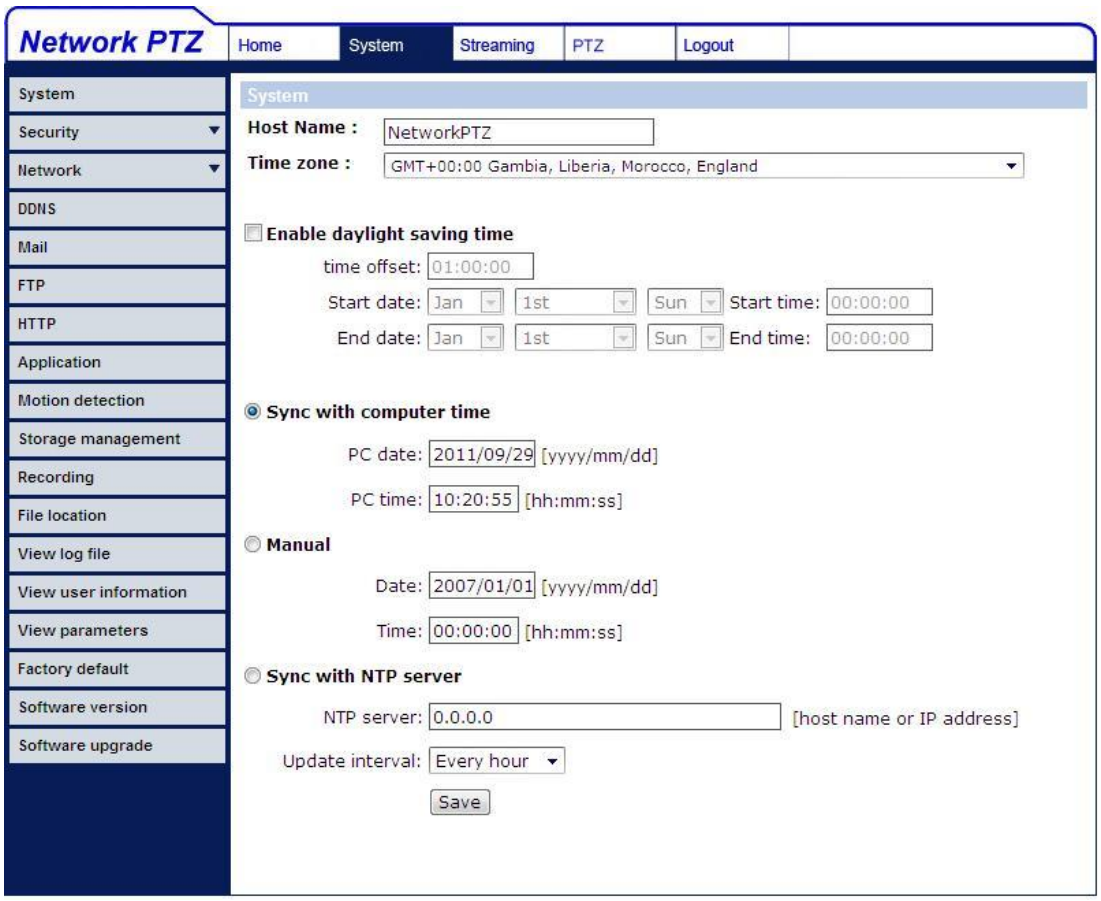
Optical/Digital Zoom Control

In Normal View display mode, users can implement zoom in/out by first moving the cursor to the live video pane and then rotating the mouse wheel. As in Full Screen mode, users can directly rotate the mouse wheel to zoom in/out on the image. Digital zoom is only available when the function is activated and which is set in <Camera-Misc1> page under the <PTZ> tab; refer to section 5.5.10 Camera—Misc 1 for details. When the camera reaches the limit of its optical range, it will automatically switch to digital zoom.

3.3 System Related Settings

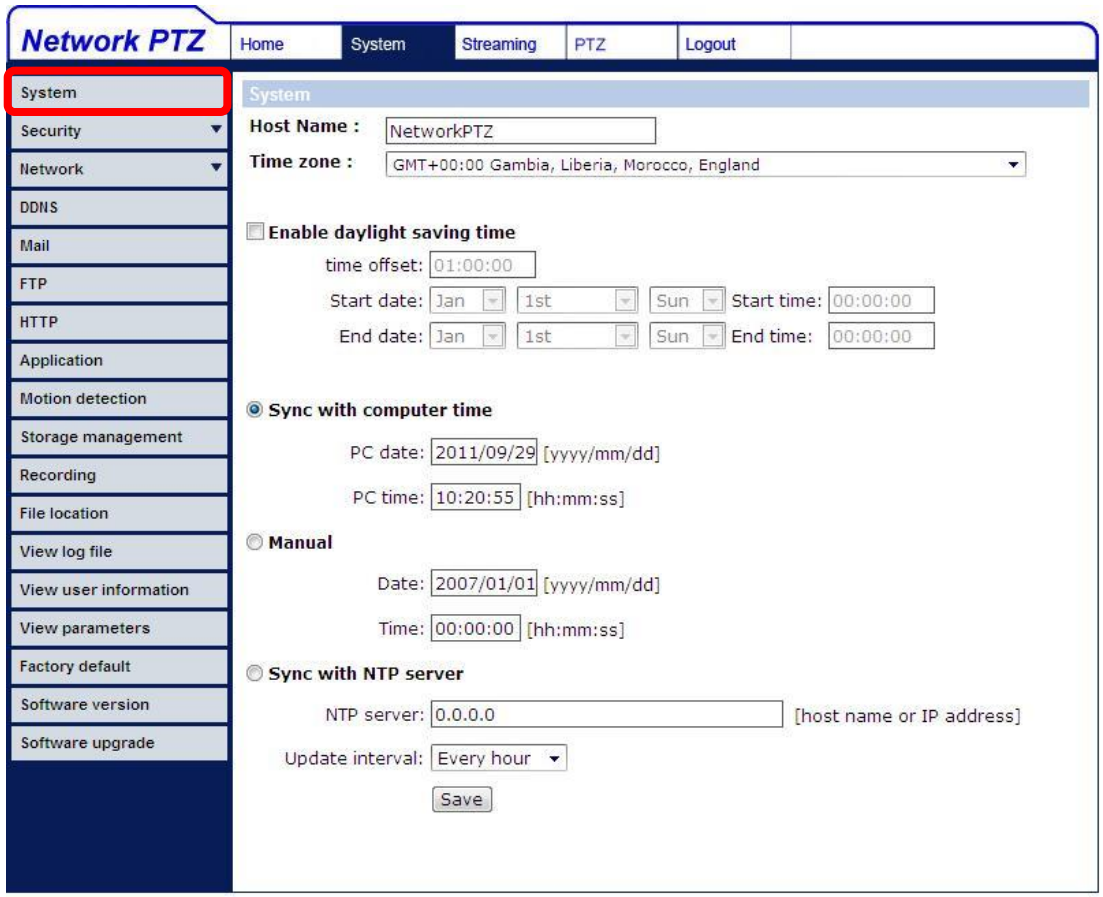
The figure below shows all categories under the <System> tab. Each submenu in the left column will be explained in the following sections.

NOTE: The System configuration page is only accessible by Administrator.



3.3.1 Host Name and System Time Setting

Press the first submenu: <System> in the left column; the page is shown as below.



Host Name

The name is for camera identification. If alarm function (refer to 5.3.7 Application) is enabled and is set to send alarm message by Mail/FTP, the host name entered here will display in the alarm message.

Time Zone

Select the time zone you are in from the drop-down menu.

Enable Daylight Saving Time

To enable DST, please check the item and then specify time offset and DST duration. The format for time offset is [hh:mm:ss]; for instance, if the amount of time offset is one hour, please enter “01:00:00” into the field.

Sync With Computer Time

Select the item, and video date and time display will synchronize with the PC’s.

Manual

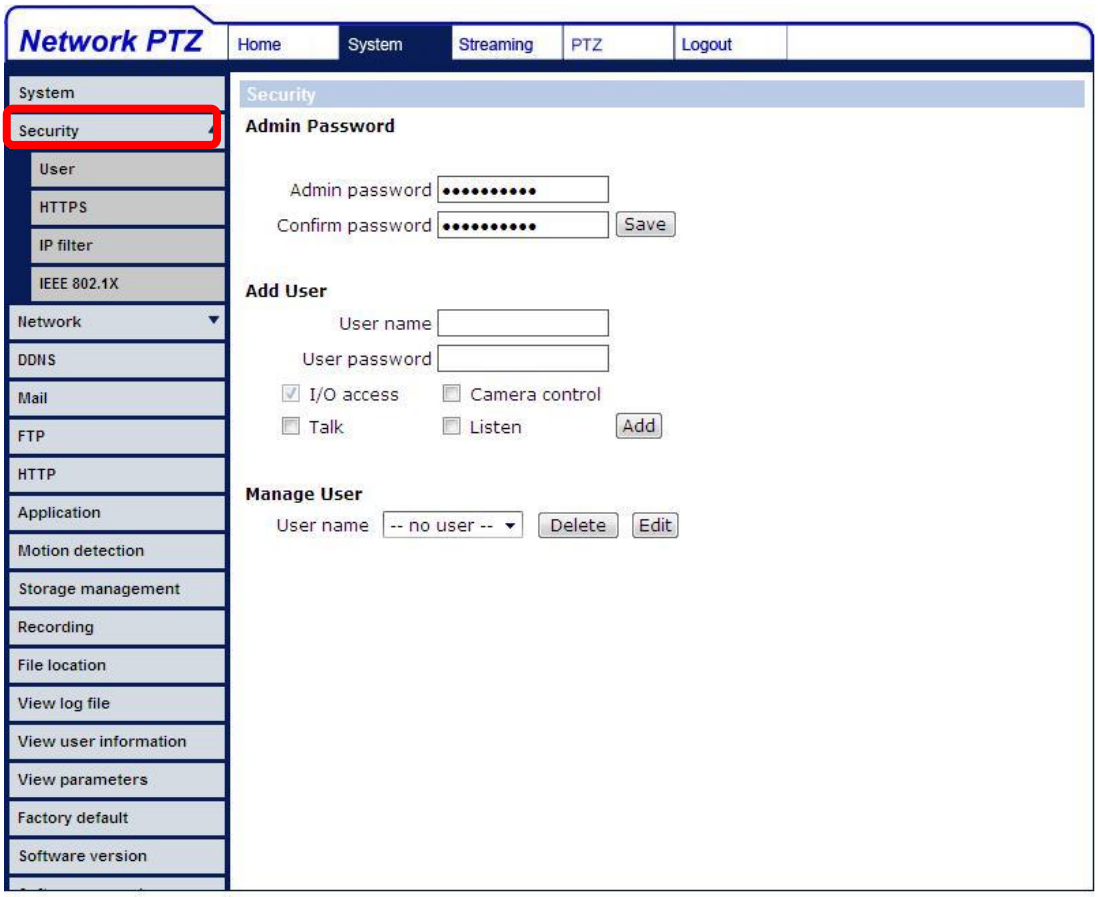
The Administrator can set video date, time and day manually. Entry format should be identical with that shown next to the enter field.

Sync with NTP Server

Network Time Protocol (NTP) is an alternate way to synchronize your camera's clock with a NTP server. Please specify the server you wish to synchronize in the enter field. Then select an update interval from the drop-down menu. For further information about NTP, please see the web site: www.ntp.org.

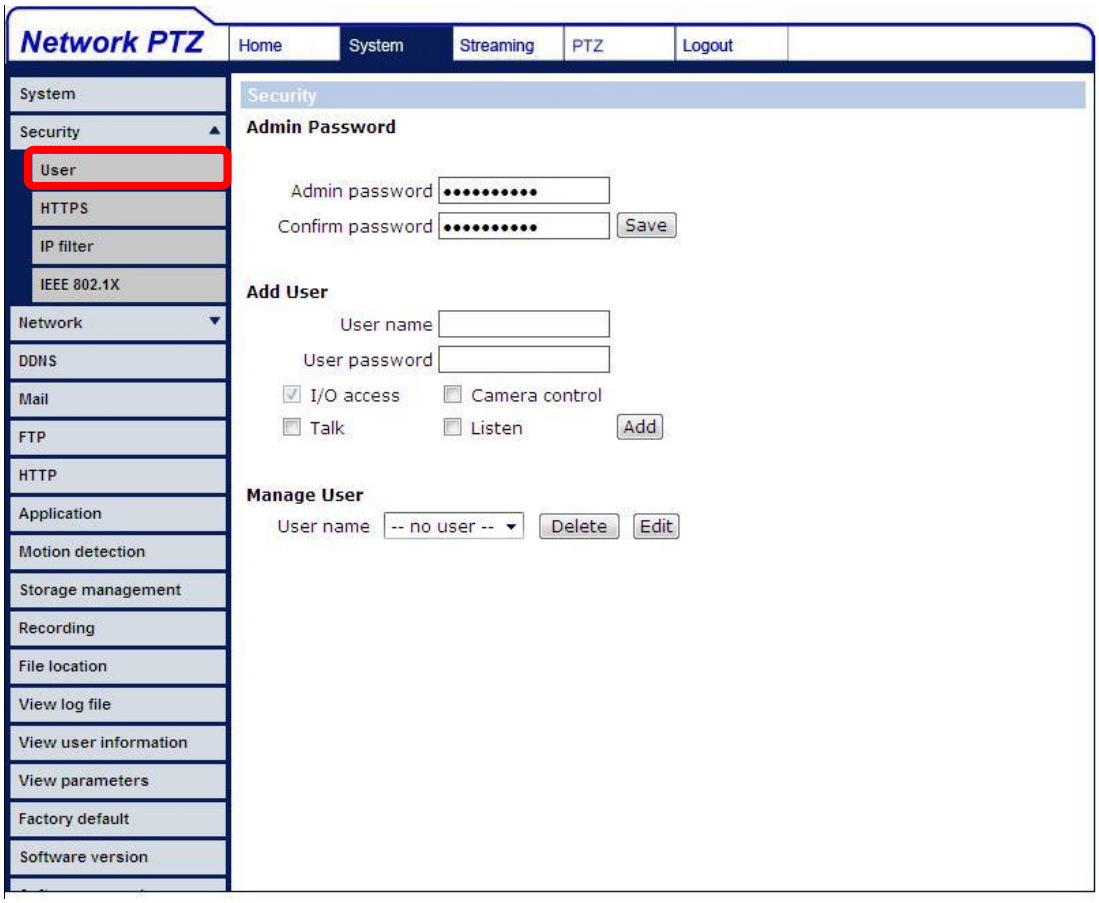
3.3.2 Security

Click on the category <Security>, there will be a drop-down menu with tabs including <User>, <HTTPS>, <IP Filter>, and <IEEE 802.1X>.



3.3.2.1 User

Click on the <User> tab under the category <Security> and the page is shown as the figure below.



Root password

Change the administrator's password by inputting the new password in both text boxes. The input characters/numbers will be displayed as dots for security purposes. After clicking on <Save>, the web browser will ask the Administrator for the new password for access. The maximum length of the password is 14 digits.

NOTE: The following characters are valid: A-Z, a-z, 0-9, !#$%&'-.@^_~.

Add user

Type the new user's name and password and click on <Add> to add the new user. User name can be up to 16 characters, and the maximum length of the password is 14 characters. The new user will be displayed in the user name list. There is a maximum of twenty user accounts. Each user can be assigned the privileges of <Camera control>, <Talk> and <Listen>.

- **I/O access**
  This item supports fundamental functions that enable users to view video when accessing to the camera.

- **Camera control**
  This item allows the appointed User to change camera parameters on the Camera Setting page.

- **Talk/Listen**
  Talk and Listen functions allow the appointed user in the local site (PC site) communicating with, for instance, the administrator in the remote site.

Manage User

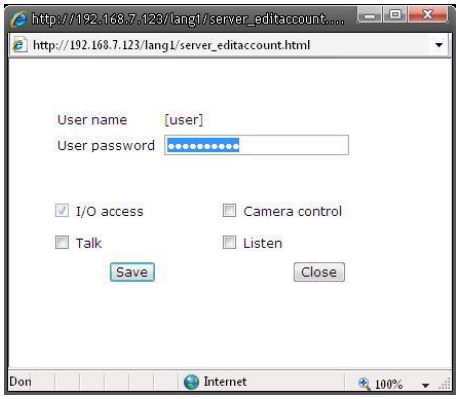
Delete user

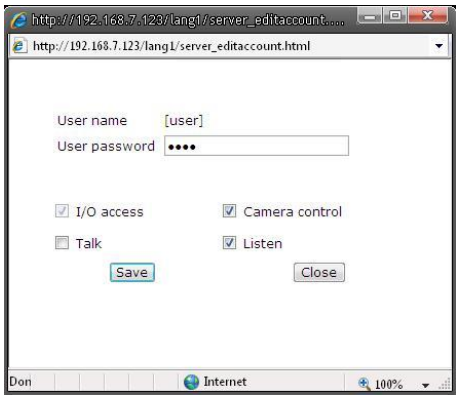
To delete a user, pull down the user list, and select the user name you wish to delete. Then click on <Delete> to remove it.

Edit user

Pull down the user list and select a user name. Click on <Edit> to edit the user's password and privilege.

NOTE: It is required to enter the User password as well as select the function open to the user. When finished, click on <Save> to modify the account authority.

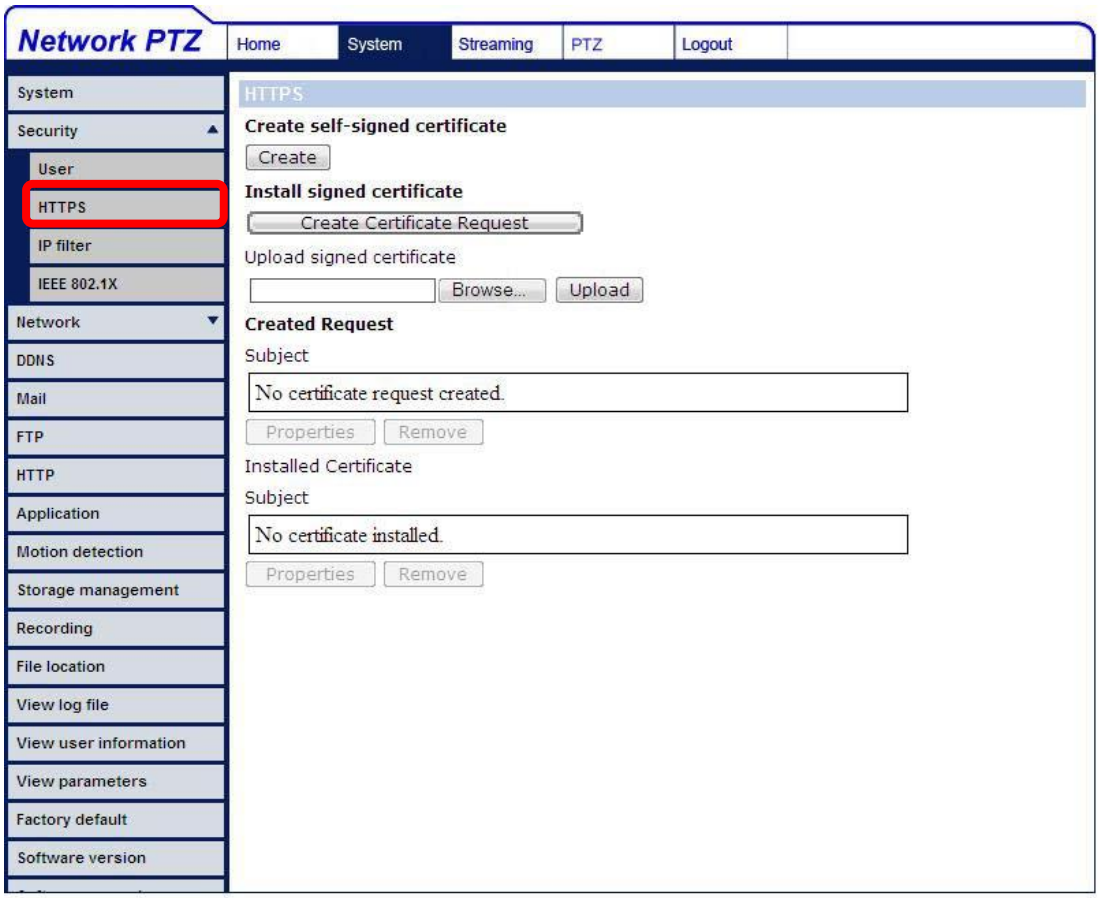




3.3.2.2 HTTPS

<HTTPS> allows secure connections between the IP Camera and web browser using <Secure Socket Layer (SSL)> or <Transport Layer Security (TLS)>, which ensure camera settings or Username/ Password info from snooping. It is required to install a self-signed certificate or a CA-signed certificate for implementing <HTTPS>.

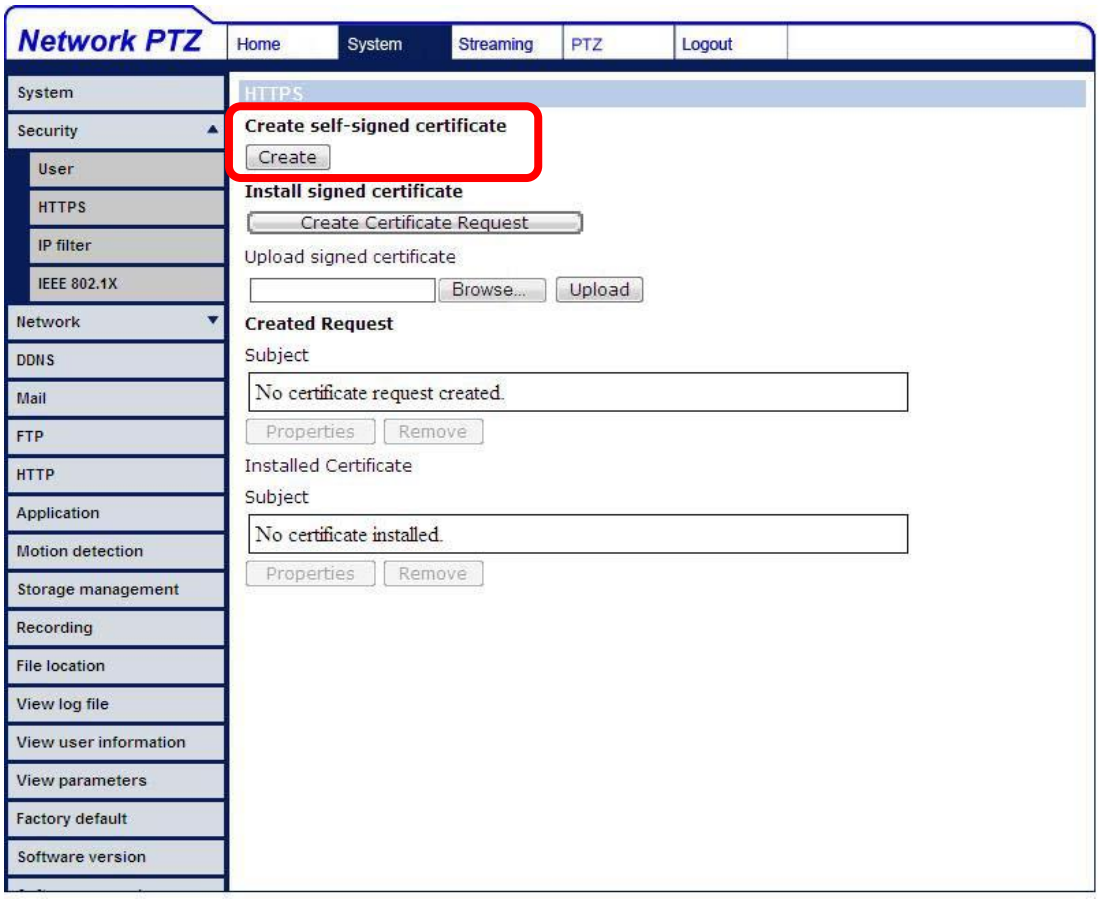
Click on the <HTTPS> tab, and the HTTPS setting page is shown as the figure below.



To use HTTPS on the IP Camera, a HTTPS certificate must be installed. The HTTPS certificate can be obtained by either creating and sending a certificate request to a Certificate Authority (CA) or creating a self-signed HTTPS certificate, as described below.

Create Self-signed Certificate

Before a CA-issued certificate is obtained, users can create and install a self-signed certificate first.

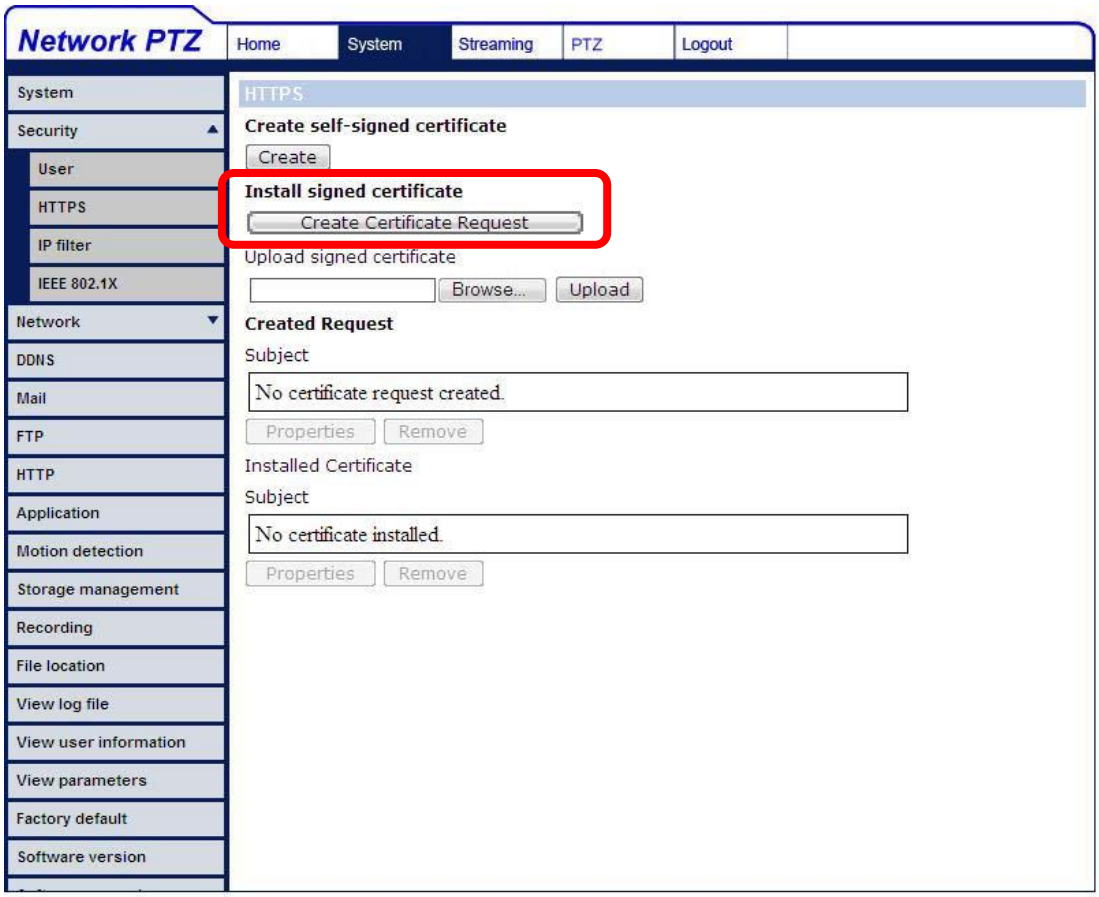


Click on <Create> button under <Create self-signed certificate> and provide the requested information to install a self-signed certificate for the IP Camera. Please refer to the last part of this section: Provide the Certificate Information for more details.

NOTE: The self-signed certificate does not provide the same high level of security as when using a CA-issued certificate.

Create Certificate Request

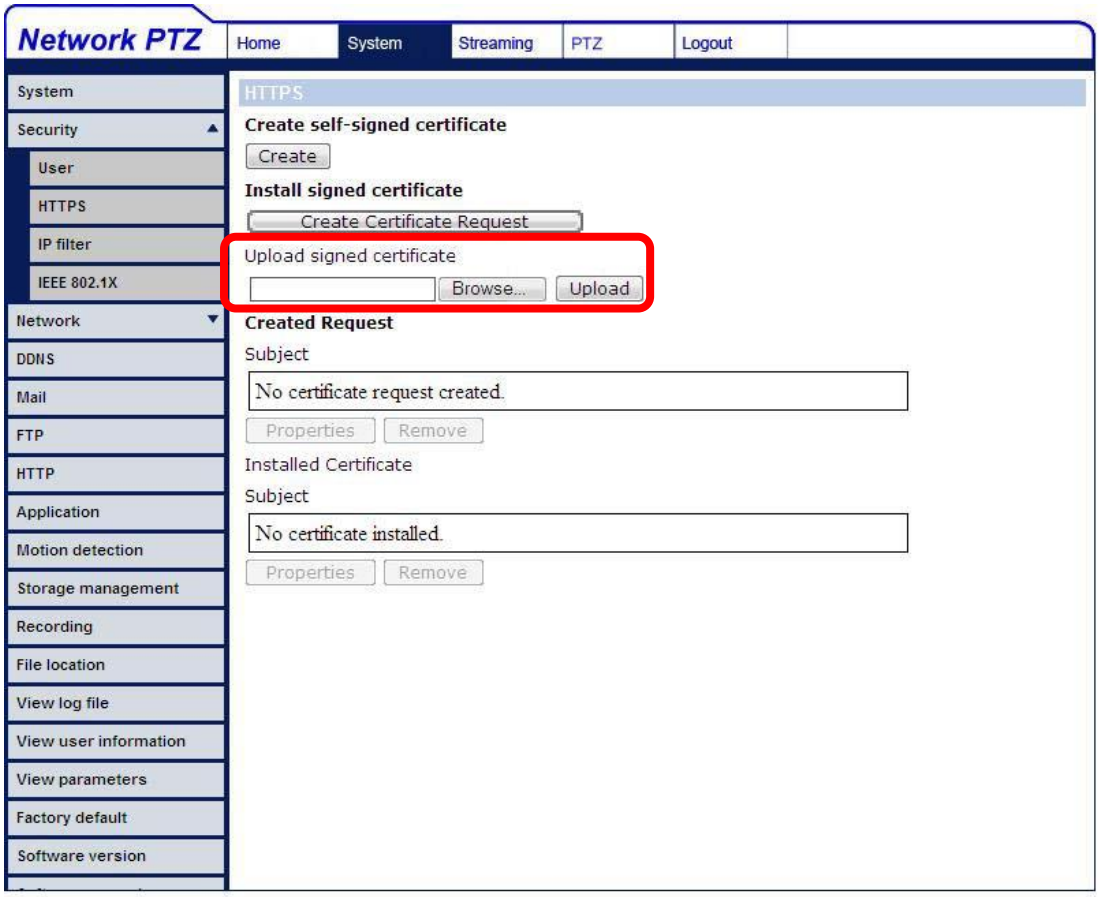
Click on the <Create Certificate Request> button to create and submit a certificate request in order to obtain a signed certificate from CA.



Provide the request information in the create dialog. Please refer to the following Provide the Certificate Information for more details.

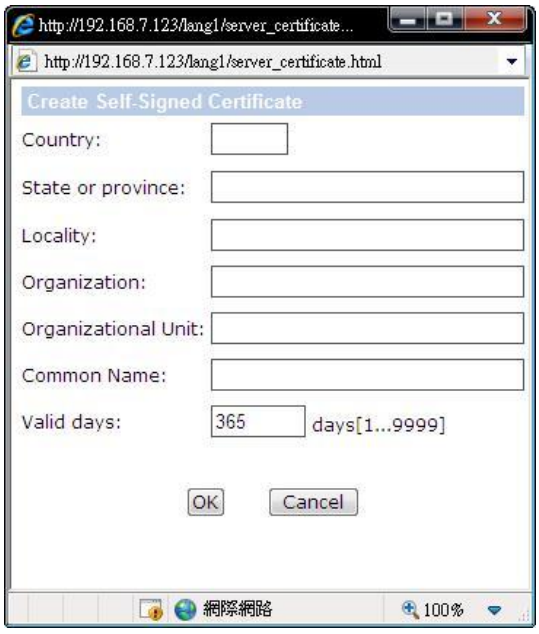
When the request is complete, the subject of the Created Request will be shown in the field. Click on <Properties> below the Subject field, copy the PEM-formatted request and send it to your selected CA.

When the signed certificate is returned, install it by uploading the signed certificate.



Provide the Certificate Information

To create a Self-signed HTTPS Certificate or a Certificate Request to CA, please enter the information as requested:



- **Country**
  Enter a 2-letter combination code to indicate the country the certificate will be used in. For instance, type in “US” to indicate United States.

- **State or province**
  Enter the local administrative region.

- **Locality**
  Enter other geographical information.

- **Organization**
  Enter the name of the organization to which the entity identified in “Common Name” belongs.

- **Organization Unit**
  Enter the name of the organizational unit to which the entity identified in “Common Name” belongs.

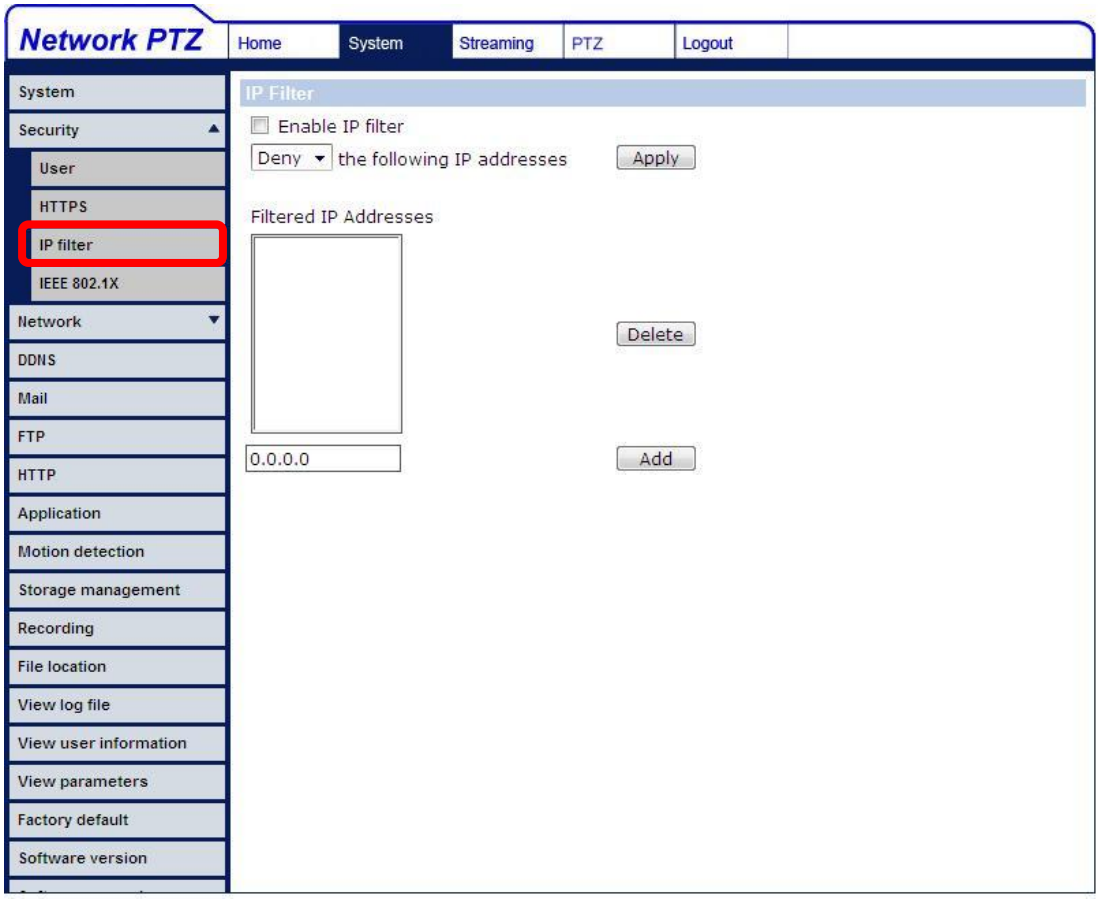
- **Common Name**
  Indicate the name of the person or other entity that the certificate identifies (often used to identify the website).

- **Valid days (Self-signed Certificate Only)**
  Enter the period in days (1~9999) to indicate the valid period of certificate.

Click on <OK> to save the Certificate Information after complete.

3.3.2.3 IP Filter

Using the IP filter, access to the IP Camera can be restricted by denying/allowing specific IP addresses.



General

- **Enable IP Filter**
  Check the box to enable the IP Filter function. Once enabled, the listed IP addresses (IPv4) will be allowed/ denied access to the IP Camera.

  Select <Allow> or <Deny> from the drop-down list and click on the <Apply> button to determine the IP Filter behavior.

- **Add/ Delete IP Address**
  Input the IP address and click on the <Add> button to add a new filtered address.

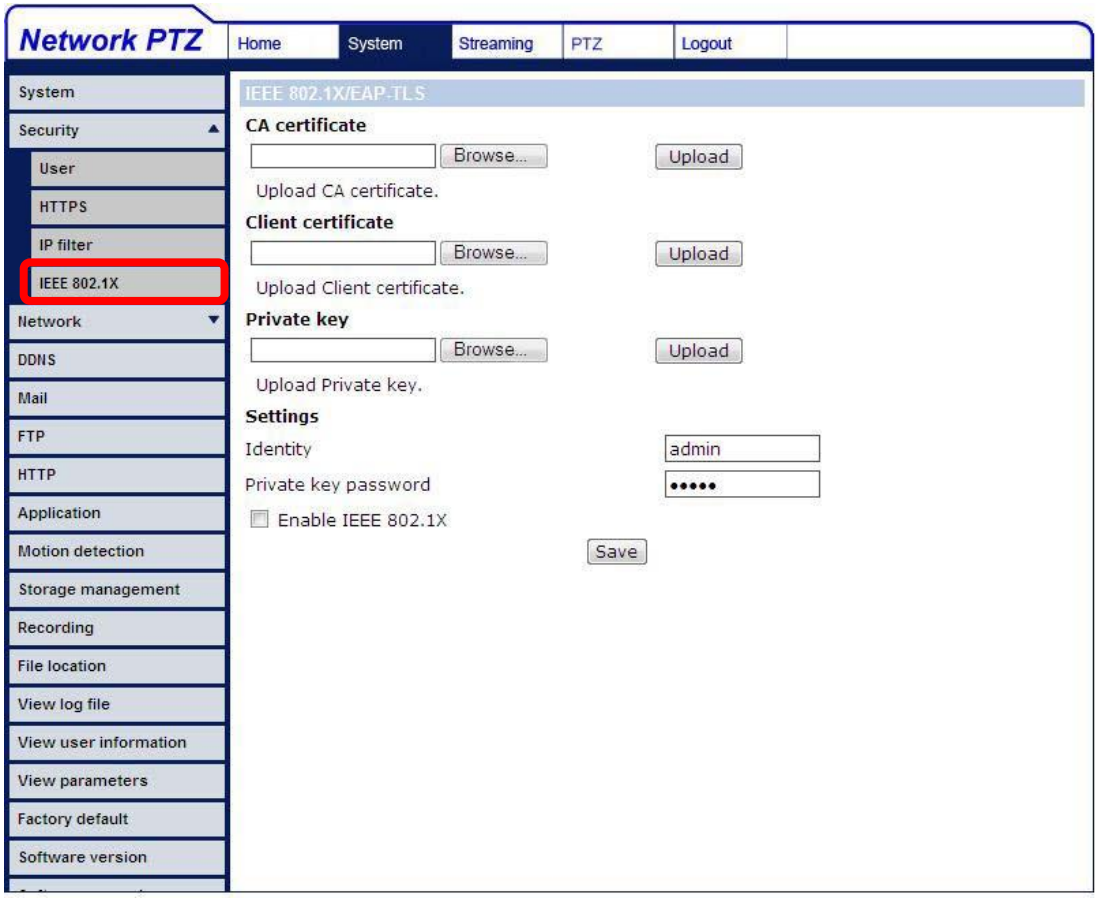
  The Filtered IP Addresses list box shows the currently configured IP addresses. Up to 256 IP address entries may be specified.

  To remove an IP address from the list, please select the IP and then click on the <Delete> button.

3.3.2.4 IEEE 802.1X

The IP Camera is allowed to access a network protected by 802.1X/EAPOL (Extensible Authentication Protocol over LAN).

Users need to contact with the network administrator for gaining certificates, user IDs and passwords.



CA Certificate

The CA certificate is created by the Certification Authority for the purpose of validating itself. Upload the certificate for checking the server's identity.

Client Certificate/ Private Key

Upload the Client Certificate and Private Key for authenticating the IP Camera itself.

Settings

- **Identity**

  Enter the user identity associated with the certificate.

  Up to 16 characters can be used.

- **Private Key Password**

  Enter the password (maximum 16 characters) for your user identity.

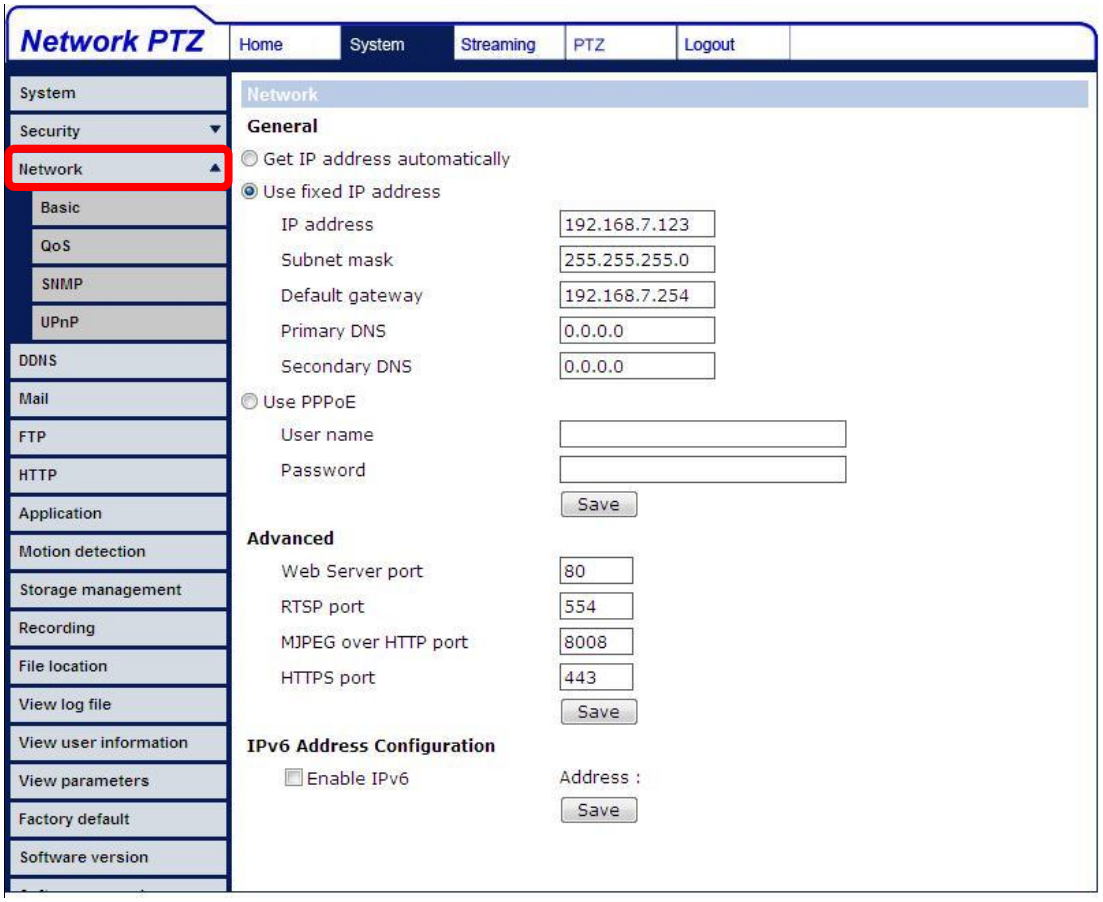
Enable IEEE 802.1X

Check the box to enable IEEE 802.1X.

Click on <Save> to save the IEEE 802.1X/ EAP—TLS setting.

3.3.3 Network

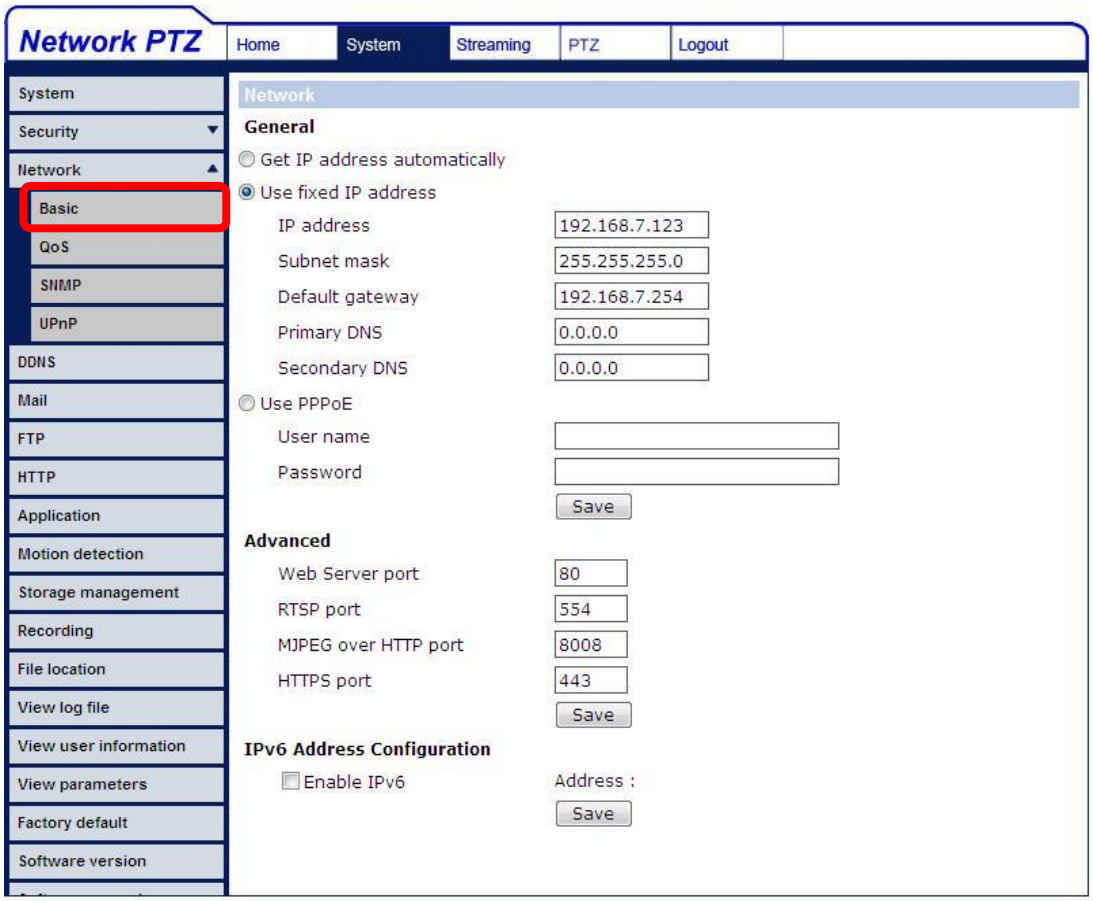
Click on the category <Network>, there will be a drop-down menu with tabs including <Basic>, <QoS>, <SNMP>, and <UPnP>.



Users can choose to use fixed IP address or dynamic (DHCP) IP address. The following is descriptions for the two ways of setting IP address.

3.3.3.1 Basic

Users can choose to connect to the IP Camera with fixed or dynamic (DHCP) IP address. The IP Camera also provides PPPoE (Point-to-Point Protocol over Ethernet) support for users who connect to the network via PPPoE.



Get IP address automatically (DHCP)

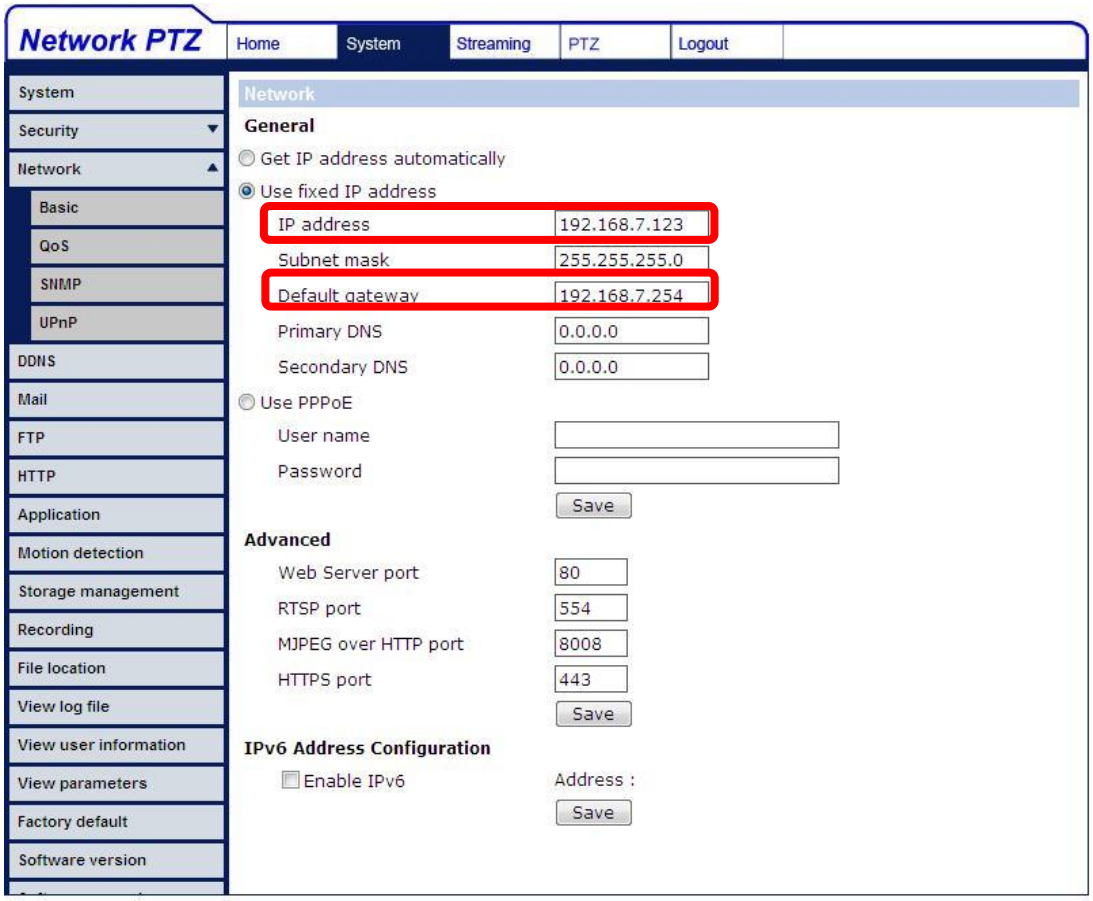
The camera's default setting is <Use fixed IP address>. Please refer to the previous section 4. Accessing IP Camera for login with the default IP address.

If select <Get IP address automatically>, after the IP Camera restarts, users can search it through the installer program: DeviceSearch.exe, which can be found in "DeviceSearch" folder in the supplied CD.

NOTE: Please make the record of the IP Camera's MAC address, which can be found in the label of the camera, for identification in the future.

Use fixed IP address

To setup static IP address, select <Use fixed IP address> and move the cursor to the IP address blank (as indicated below) and insert the new IP address, ex. 192.168.7.123; then go to the Default gateway (explained latter) blank and change the setting, ex. 192.168.7.254. Click on <Save> to confirm the new setting.



When using static IP address to login to the IP Camera, users can access it either through “DeviceSearch” software (refer to 4. Accessing IP Camera) or input the IP address in the URL bar and click on <Enter>.

- **IP address**
  This is necessary for network identification.

- **Subnet mask**
  It is used to determine if the destination is in the same subnet.
  The default value is “255.255.255.0”.

- **Default gateway**
  This is the gateway used to forward frames to destinations in different subnet. Invalid gateway setting will fail the transmission to destinations in different subnet.

- **Primary DNS**
  Primary DNS is the primary domain name server that translates hostnames into IP addresses.

- **Secondary DNS**
  Secondary DNS is a secondary domain name server that backups the primary DNS.

Use PPPoE

For the PPPoE users, enter the PPPoE Username and Password into the fields, and click on the <Save> button to complete the setting.

Advanced

- **Web Server port**
  The default web server port is 80. Once the port is changed, the user must be notified the change for the connection to be successful.
  For instance, when the Administrator changes the HTTP port of the IP Camera whose IP address is 192.168.0.100 from 80 to 8080, the user must type in the web browser “http://192.168.0.100:8080” instead of “http://192.168.0.100”.

- **RTSP port**
  The default setting of RTSP Port is 554; the setting range is from 1024 to 65535.

- **MJPEG over HTTP port**
  The default setting of MJPEG over HTTP Port is 8008; the setting range is from 1024 to 65535.

- **HTTPS port**
  The default setting of HTTPS Port is 443; the setting range is from 1024 to 65535.

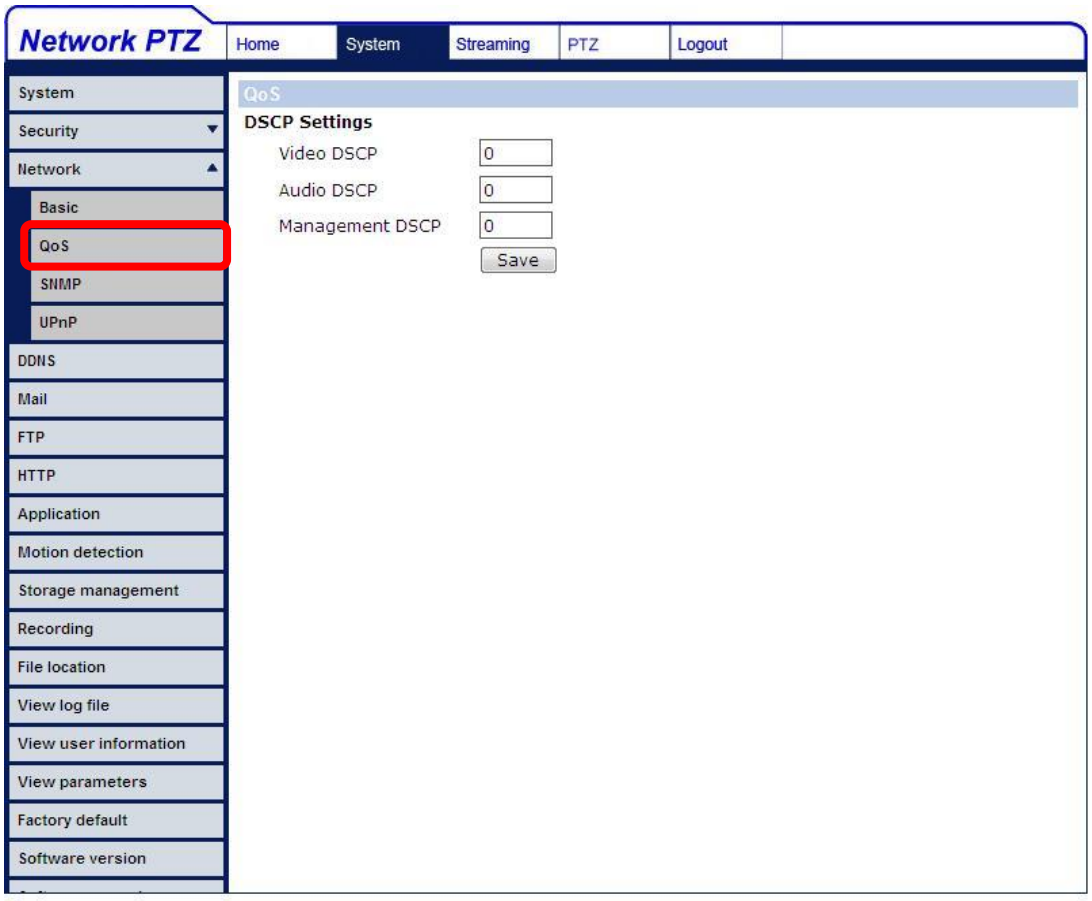
NOTE: Be aware to assign a different port number for each separate service mentioned above.

IPv6 Address Configuration

With IPv6 support, users can use the corresponding IPv6 address for browsing. Enable IPv6 by checking the box and click on <Save> to complete the setting.

3.3.3.2 QoS (Quality of Service)

QoS allows providing differentiated service levels for different types of traffic packets, which guarantees delivery of priority services especially when network congestion occurs. Adapting the Differentiated Services (DiffServ) model, traffic flows are classified and marked with DSCP (DiffServ Codepoint) values, and thus receive the corresponding forwarding treatment from DiffServ capable routers.



DSCP Settings

The DSCP value range is from 0 to 63. The default DSCP value is 0, which means DSCP disabled.

The IP Camera uses the following QoS Classes: Video, Audio and Management.

- **Video**
  The class consists of applications such as MJPEG over HTTP, RTP/RTSP and RTSP/HTTP.

- **Audio**
  This setting is only available for the IP Cameras that support audio.

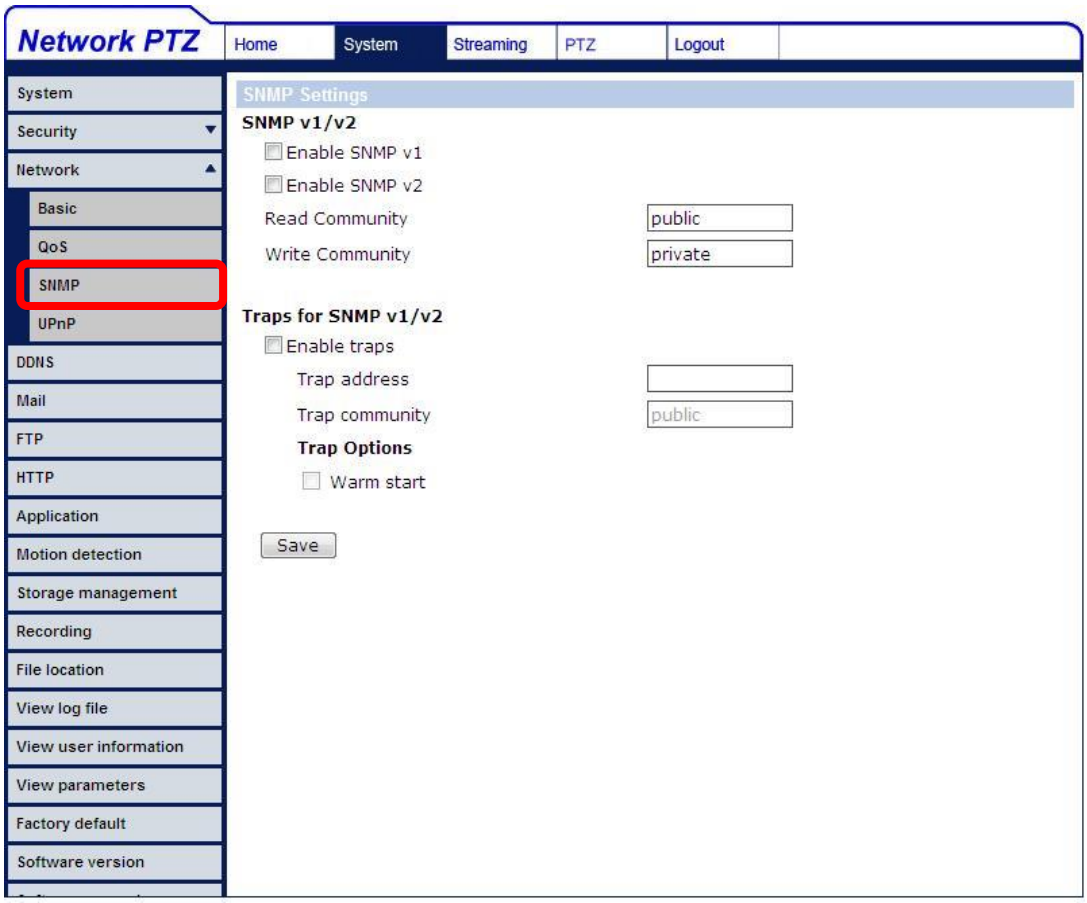
- **Management**
  The class consists of HTTP traffic: Web browsing.

Click on the <Save> button when complete.

NOTE: To enable this function, please make sure the switches/routers in the network support QoS.

3.3.3.3 SNMP (Simple Network Management Protocol)

With Simple Network Management Protocol (SNMP) support, the IP Camera can be monitored and managed remotely by the network management system.



SNMP v1/ v2

- **Enable SNMP**
  Select the version of SNMP to use by checking the box.

- **Read Community**
  Specify the community name that has read-only access to all supported SNMP objects. The default value is <public>.

- **Write Community**
  Specify the community name that has read/write access to all supported SNMP objects (except read-only objects). The default value is <write>.

Traps for SNMP v1/ v2

Traps are used by the IP Camera to send massages to a management system for important events or status changes.

- **Enable Traps**
  Check the box to activate trap reporting.

- **Trap address**
  Enter the IP address of the management server.

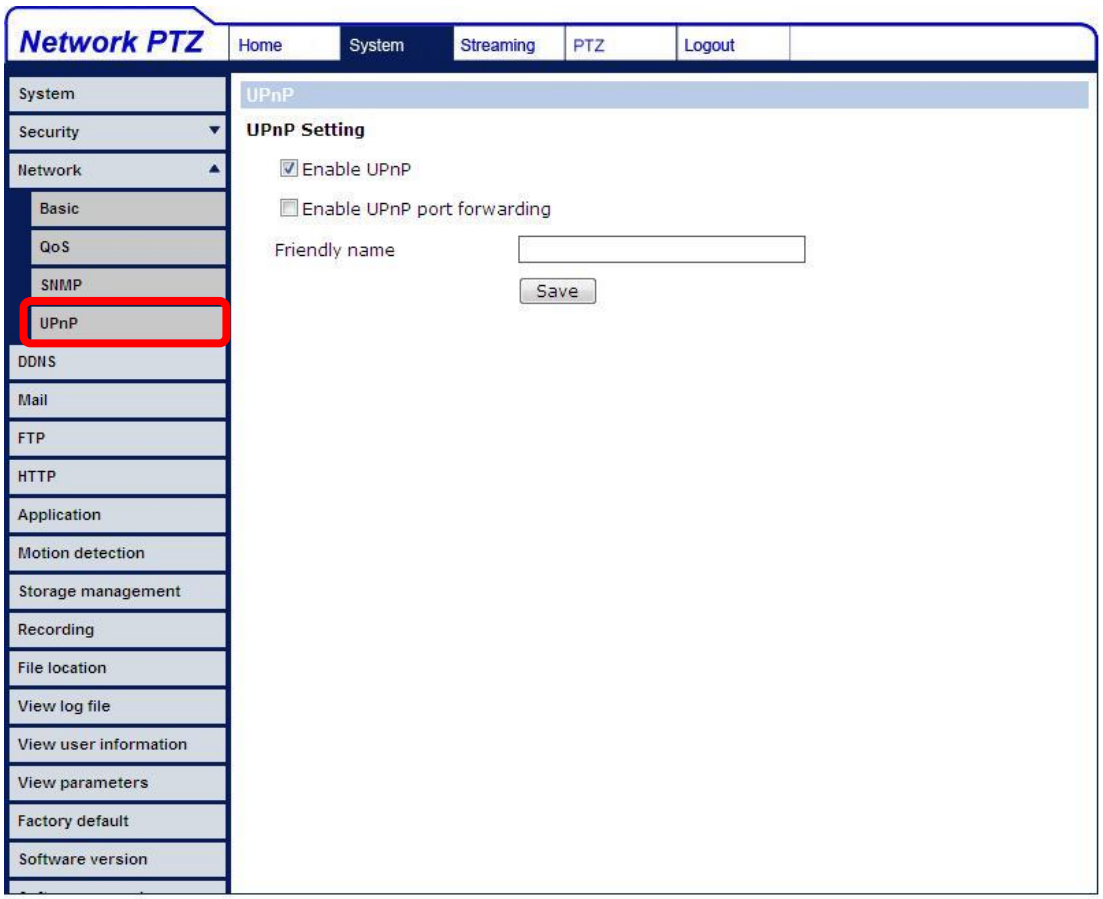
- **Trap community**
  Enter the community to use when sending a trap message to the management system.

Trap Option

- **Warm Start**
  A Warm Start SNMP trap signifies that the SNMP device, i.e. IP Camera, performs software reload.

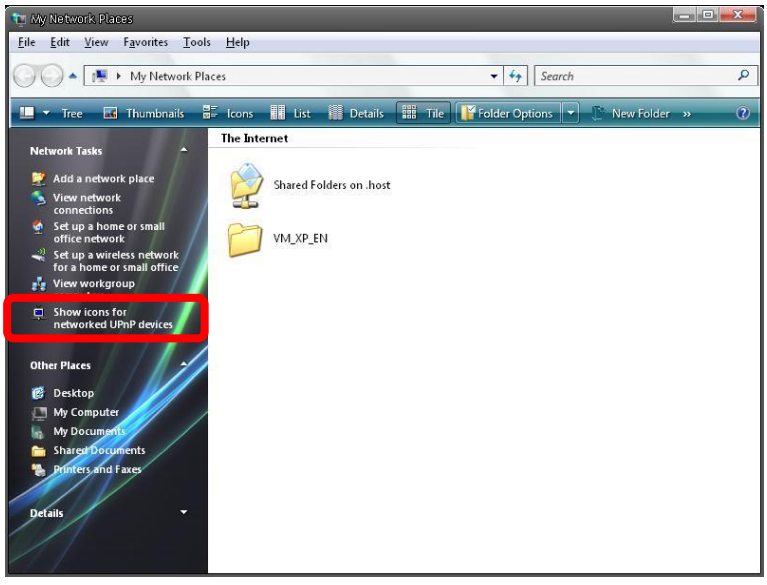
Click on the <Save> button when complete.

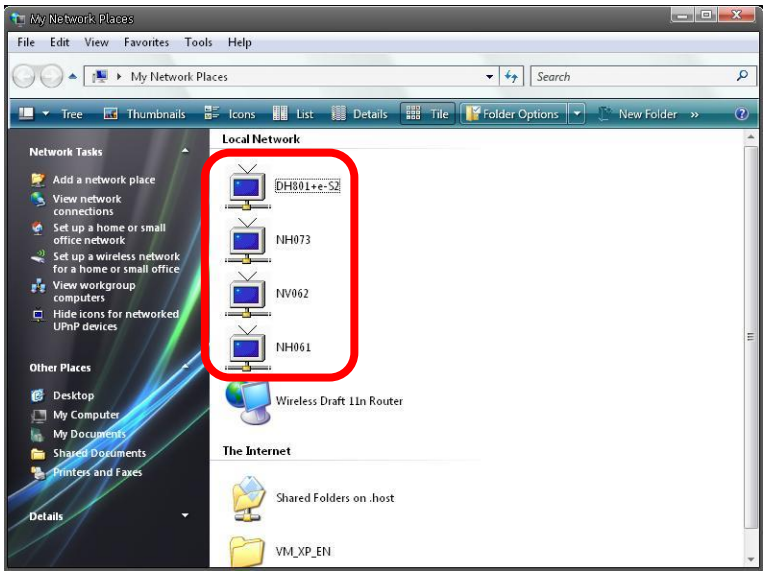
3.3.3.4 UPnP



UPnP Setting

- **Enable UPnP**
  When the UPnP is enabled, whenever the IP Camera is presented to the LAN, the icon of the connected IP Cameras will appear in My Network Places to allow for direct access as shown below.





NOTE: To enable this function, please make sure the UPnP component is installed on your computer. Please refer to Appendix D: Install UPnP components for UPnP component installation procedure.

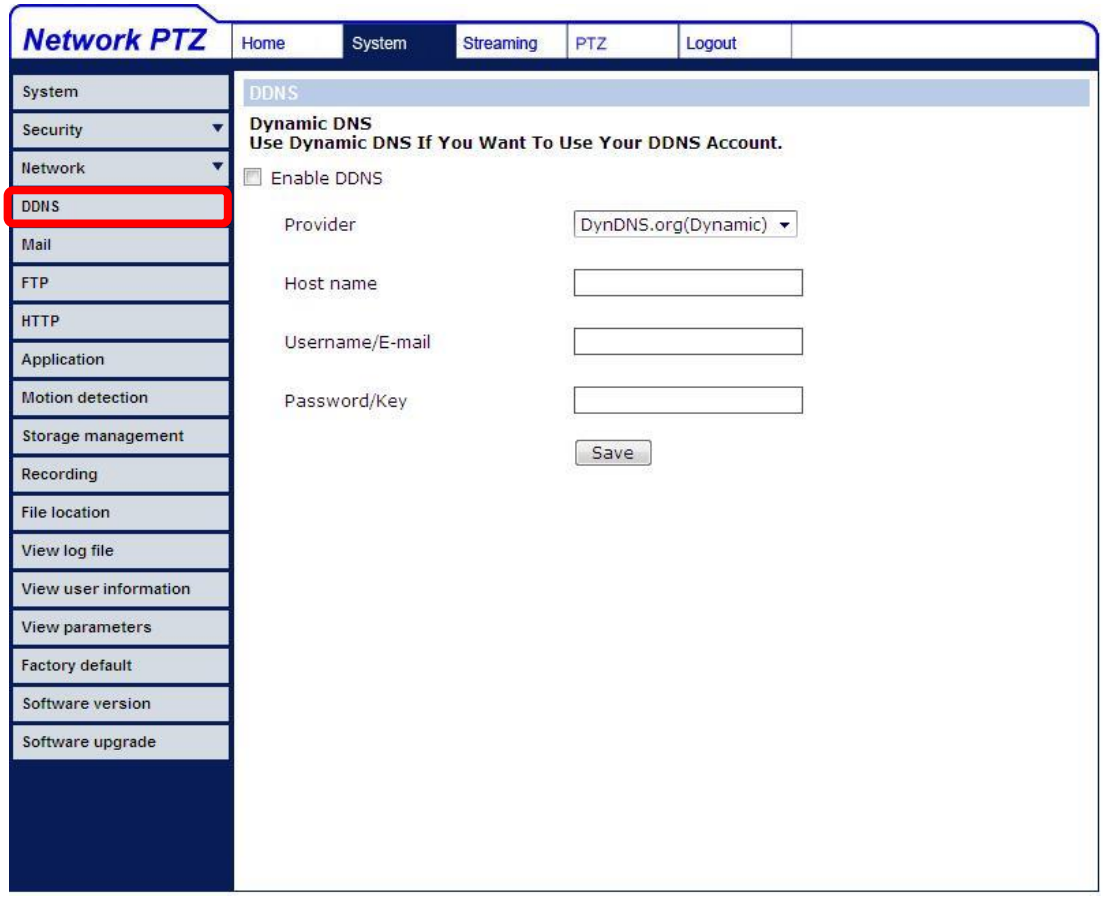
- **Enable UPnP port forwarding**
  When the UPnP port forwarding is enabled, the IP Camera is allowed to open the web server port on the router automatically.

NOTE: To enable this function, please make sure that your router supports UPnP and it is activated

- **Friendly name**
  Set the name for the IP Camera for identity.

3.3.4 DDNS

Dynamic Domain Name System (DDNS) allows a host name to be constantly synchronized with a dynamic IP address. In other words, it allows those using a dynamic IP address to be associated to a static domain name so others can connect to it by name.



Enable DDNS

Check the item to enable DDNS.

Provider

Select one DDNS host from the provider list.

Host name

Enter the registered domain name in the field.

Username/E-mail

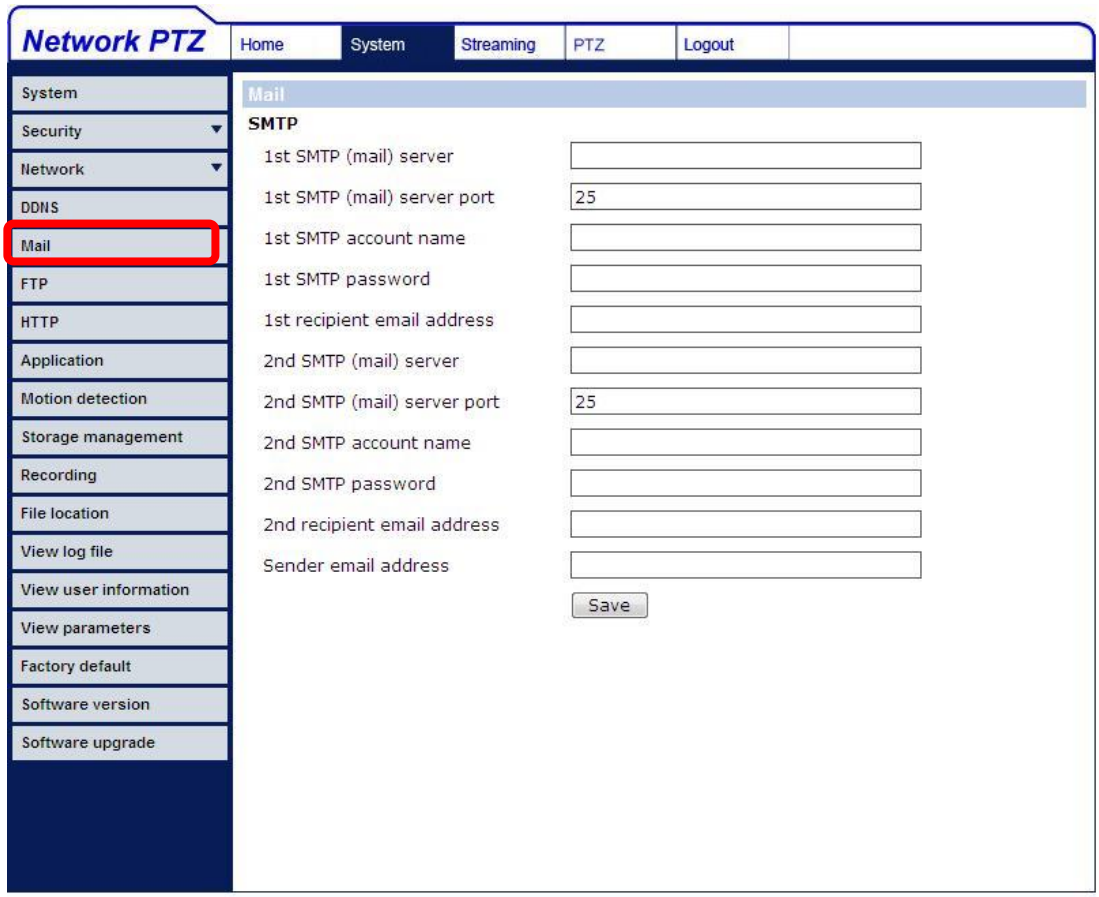
Enter the username or e-mail required by the DDNS provider for authentication.

Password/Key

Enter the password or key required by the DDNS provider for authentication.

3.3.5 Mail

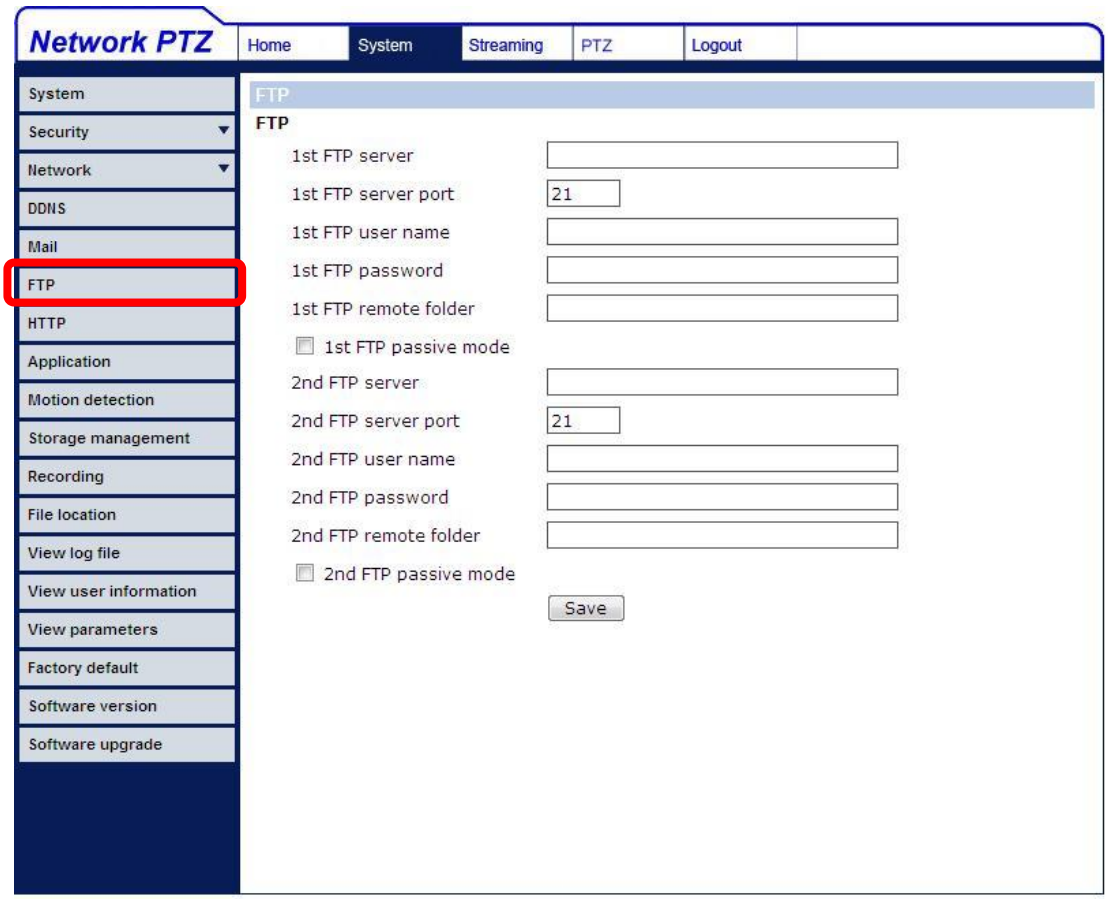
The Administrator can send an e-mail via Simple Mail Transfer Protocol (SMTP) when an alarm is triggered. SMTP is a protocol for sending e-mail messages between servers. SMTP is a relatively simple, text-based protocol, where one or more recipients of a message are specified and the message text is transferred. The configuration page is shown as follows:



Two sets of SMTP can be configured. Each set includes SMTP Server, Account Name, Password and E-mail Address settings. For SMTP server, contact your network service provider for more specific information.

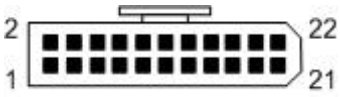
3.3.6 FTP

The Administrator can set as sending alarm message to a specific File Transfer Protocol (FTP) site when an alarm is triggered. Users can assign alarm message to up to two FTP sites. The FTP setting page is shown below. Enter the FTP details, which include server, server port, user name, password and remote folder, in the fields. Click on <Save> when finished.



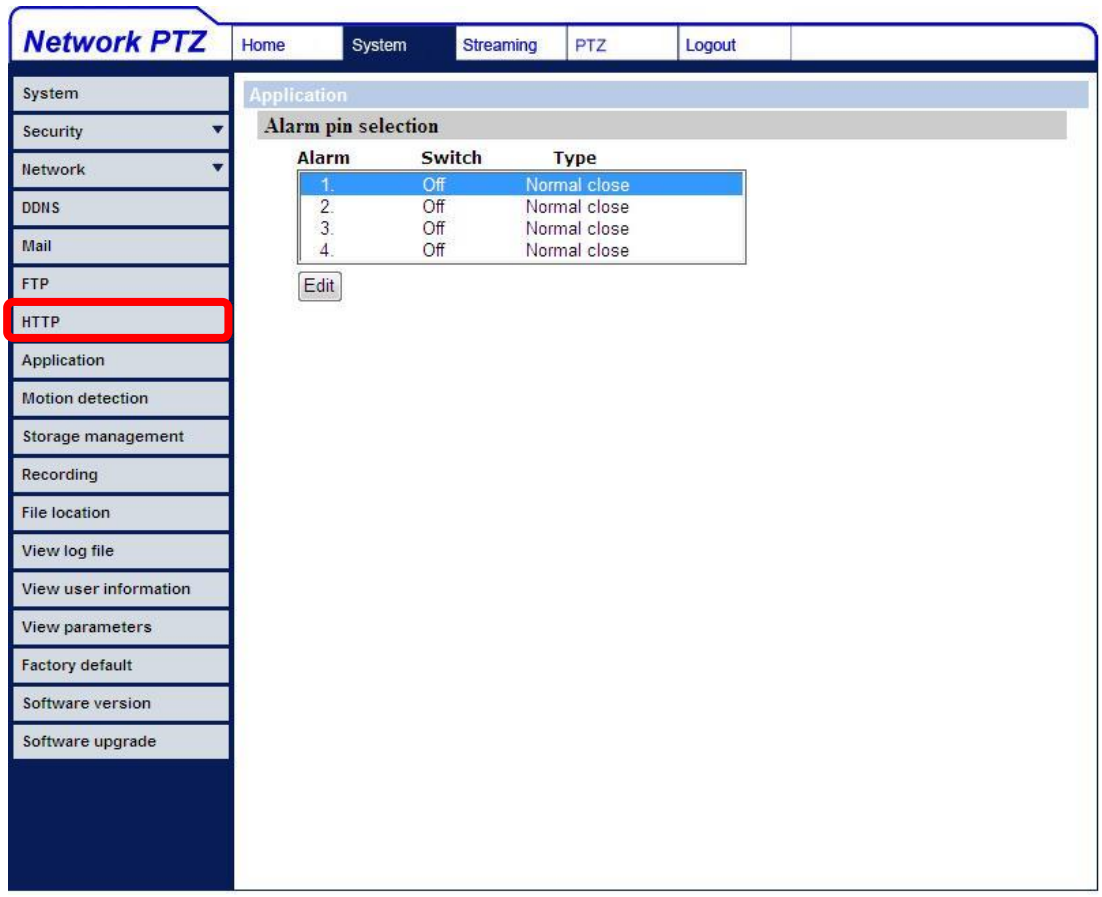
3.3.7 Application (Alarm Settings)

The network Speed Dome Camera supports 4 alarm inputs and 1 alarm output. Please make sure the alarm connections are properly wired before starting to configure alarm related settings on this <Application> page. Please refer to the pin definition table below for alarm system wiring.



Pin	Definition	Cable
1	AC 24-1/DC (+)	20AWG/18AWG
2	ALM NC	
3	AC 24-2/DC (−)	20AWG/18AWG
4	ALM NO	
5	FG	20AWG18AWG
6	ALM COM	
7	Audio in	24AWG
8	Audio out	
9	Audio GND	
10	Audio GND	
11	ISOG	

Pin	Definition	Cable
12	ALM-1	
13	ALM-3	
14	ALM-2	
15	ALM-4	
16	Reserved	
17	Reserved	
18	Reserved	
19	Reserved	
20	ALM GND	
21	VGND	20AWG
22	Video	

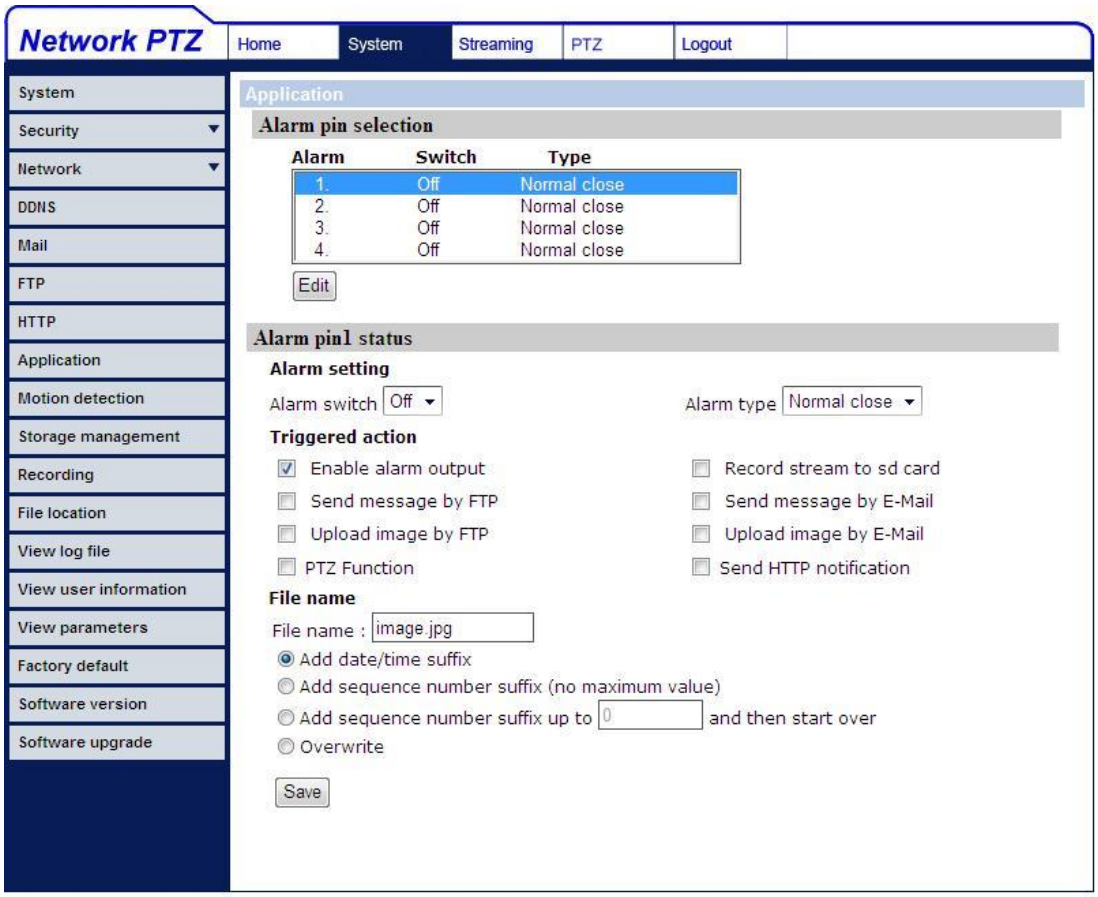


Alarm Pin Selection

Select an alarm pin which is to be configured from the <Alarm Pin Selection> field. Then click on the button <Edit> below the field to carry on alarm programming.

Alarm Status Settings

The specific alarm pin's property can be programmed in this section as shown below.



Alarm Switch

- **Alarm Switch**
  The Administrator can enable or disable the alarm function.

- **Alarm Type**
  Select an alarm type, <Normal close> or <Normal open>, that corresponds with the alarm application.

Triggered Action (Multi-option)

The Administrator can specify alarm actions that will take when the alarm is triggered. All options are listed as follows:

- **Enable Alarm Output**
  Select the item to enable alarm relay output.

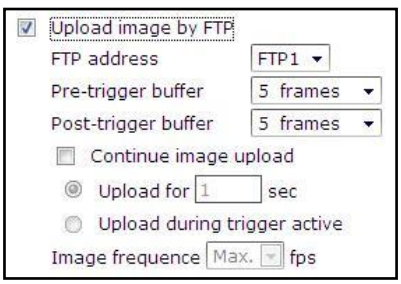
- **Send Alarm Message by FTP/E-Mail**
  The Administrator can select whether to send an alarm message by FTP and/or E-Mail when an alarm is triggered.

- **Upload Image by FTP**
  Select this item and the Administrator can assign a FTP site and configure various parameters as shown in the figure below. When the alarm is triggered, event images will be uploaded to the appointed FTP site.

  <Pre-trigger buffer> function allows users to check what happened to cause the trigger. The <Pre-trigger buffer> frame rate could be pre-determined.

  On the other hand, <Post-trigger buffer> is for users to upload certain amount of images after the alarm input is triggered.

  Check the box <Continue image upload> to upload the triggered images during certain time or keep uploading until the trigger is off. Select <Upload for __sec> and enter the duration in the blank. The images of the duration will be uploaded to FTP when the alarm input is triggered. The setting range is from 1 to 9999 seconds. Select <Upload during the trigger active> to make the images keep being uploaded to FTP during the trigger active until the alarm is released. Set the Image frequency as the upload frame rate. The setting range is from 1 frame to 15 frames.

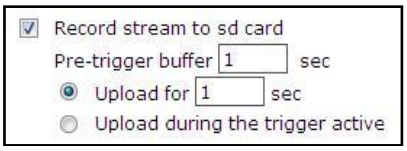


NOTE: Make sure FTP configuration has been completed. Refer to FTP for further details.

- **Record Stream to SD Card**
  Select the item and the alarm-triggered recording will be saved into your Micro SD card.

  Pre-trigger buffer recording function allows users to check what happened to cause the trigger. The pre-trigger buffer time range is from 1 to 3 seconds. Select <Upload for __ sec> to set the recording duration after alarm is triggered. The setting range is from 1 to 99999 seconds. Select <Upload during the trigger active> to record the triggered video until the trigger is off.

‘



NOTE: Please make sure the local recording (with Micro SD/ SDHC card) is activated so that this function can be implemented. Refer to 5.3.10 Recording for further details.

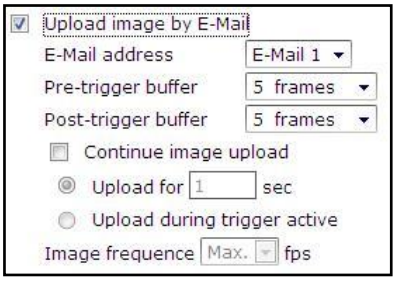
- **Upload Image by E-Mail**
  Select this item and the Administrator can assign an e-mail address and configure various parameters as shown in the figure below.
  When the alarm is triggered, event images will be sent to the appointed e-mail address.

  <Pre-trigger buffer> function allows users to check what happened to cause the trigger. The <Pre-trigger buffer> frame rate could be pre-determined.

  On the other hand, <Post-trigger buffer> is for users to upload certain amount of images after alarm input is triggered.

  Check the box <Continue image upload> to upload the triggered images during certain time or keep uploading until the trigger is off. Select <Upload for __sec> and enter the duration in the blank. The images of the duration will be uploading by E-mail when the alarm input is triggered. The setting range is from 1 to 9999 seconds. Select <Upload during the trigger active> to make the images keep being uploaded to E-mail during the trigger active until the alarm is released.

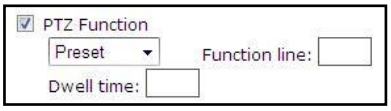
Set the Image frequency as the upload frame rate. The setting range is from 1 frame to 15 frames.



NOTE: Make sure SMTP configuration has been completed. Please refer to 5.3.5 Mail for further details.

- **PTZ Function**

  Assign a camera function: Preset, Sequence, Autopan or Cruise, and specify a Preset Point/Sequence Line/ Autopan Path/Cruise Line for the camera to perform at an alarm occurrence.



NOTE: Please refer to the sections through 5.5.1 Preset Programming to 5.5.4 Sequence Line Programming for details of Preset Point / Sequence Line / Autopan Path / Cruise Line setups.

If the selected function is <Preset>, it is required to enter its dwell time (1 ~ 256 sec.) in the corresponding field as shown below. When the alarm is triggered, the camera will go to the selected Preset Point and stay there for a user-defined period of time. As for other function modes, the camera will keep executing the specified function; to stop the performance, simply change the camera's status.

NOTE: The dwell time is only adjustable when selecting Preset as the alarm action. When the dwell time is up, the network Speed Dome Camera will go back to its trigger position and recheck alarm pin status.

- **Send HTTP notification**
  Check this item, select the destination HTTP address, and specify the parameters for event notifications by <Alarm> triggered. When an alarm is triggered, the notification can be sent to the specified HTTP server.

  For instance, if the custom parameter is set as" action=1&group=2", and the HTTP server name is" http://192.168.0.1/admin.php", the notification will be sent to HTTP server as" http://192.168.0.1/admin.php? action=1&group=2" when alarm is triggered.

File Name

Enter a file name in the File name field, ex. image.jpg. The uploaded image's file name format can be set in this section. Please select the one that meets your requirements.

- **Add date/time suffix**
  File name: imageYYMMDD_HHNNSS_XX.jpg
  Y: Year, M: Month, D: Day
  H: Hour, N: Minute, S: Second
  X: Sequence Number

- **Add sequence number suffix (no maximum value)**
  File name: imageXXXXXXX.jpg
  X: Sequence Number

- **Add sequence number suffix (limited value)**
  File Name: imageXX.jpg
  X: Sequence Number

  The file name suffix will end at the number being set. For example, if the setting is up to "10," the file name will start from 00, end at 10, and then start all over again.

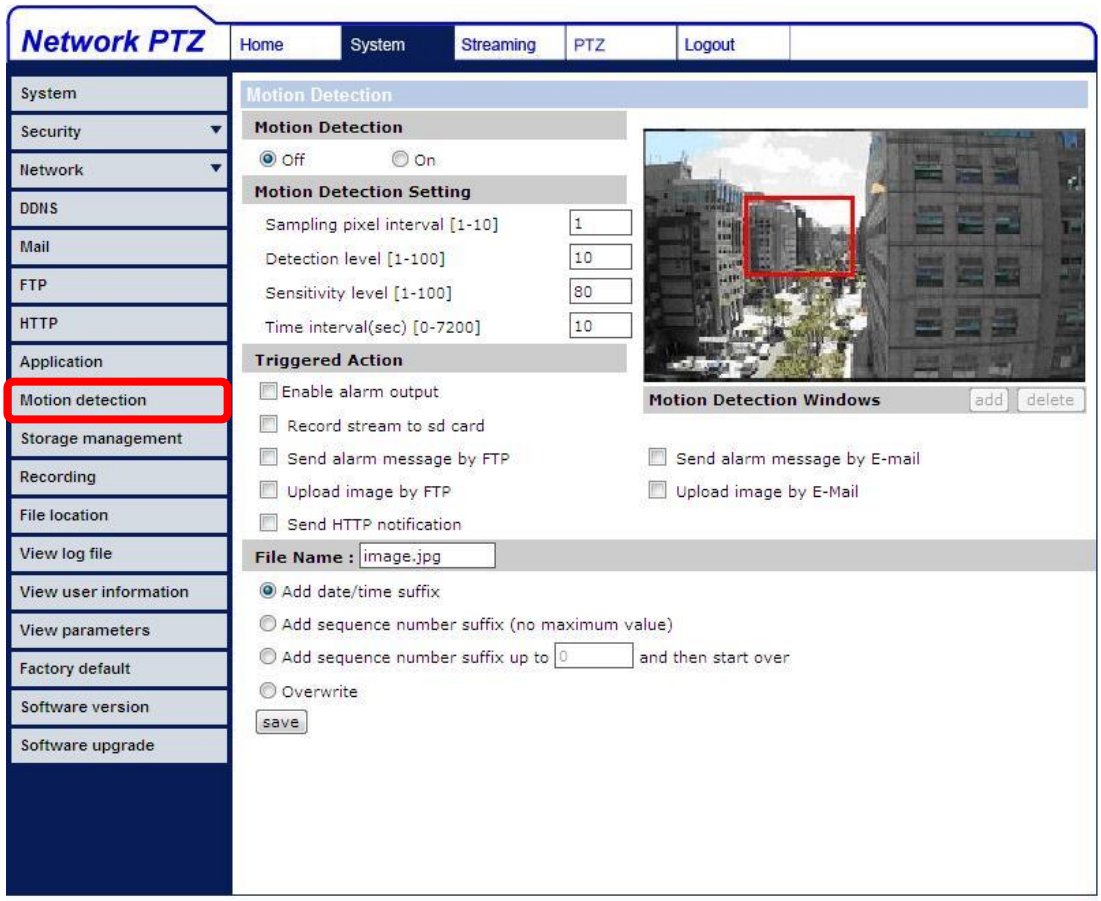
- **Overwrite**
  The original image in the FTP site will be overwritten by the new uploaded file with a static filename.

Save

After complete all the settings mentions above, please click on the <Save> button to save all the settings on this page.

3.3.8 Motion Detection

Motion Detection function allows detecting suspicious motion and triggering alarms when motion volume in the detected area reaches/exceeds the determined sensitivity threshold value.

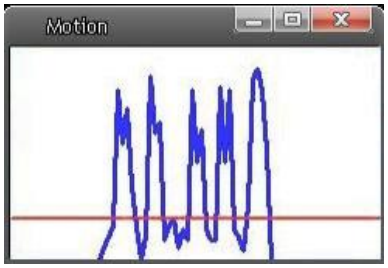


In the Motion Detection setting page, there is a frame (**Motion Detection Window**) displayed on the Live View Pane. The Motion Detection Window is for defining the motion detection area. To change the size of the Motion Detection Window, move the mouse cursor to the edge of the frame and draw it outward/inward. Moving the mouse to the center of the frame can shift the frame to the intended location.

Up 10 Motion Detection Windows can be set. Click on the <add> button under the Live View Pane to add a Motion Detection Window. To cancel a Motion Detection Window, move the mouse cursor to the selected Window, and click on the <delete> button.

If Motion Detection function is activated, the pop-off window (Motion) with indication of motion will be shown.

When motion is detected, the signals will be displayed on the Motion window as shown below.



Detailed settings of Motion Detection are described as follows:

Motion Detection

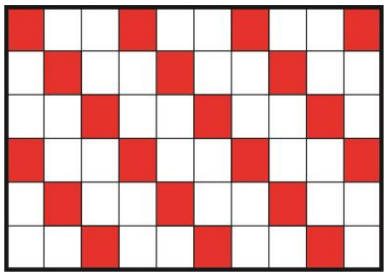
You will be able to turn on/off Motion Detection in System section. Default setting is Off.

Motion Detection Setting

Users could adjust various parameters of Motion Detection in this section.

- **Sampling pixel interval [1-10]**

  The default value is 1. If the value is set as 3, it means within the detection region, system will take one sampling pixel for every 3 pixels by each row and each column (refer to the figure below).



- **Detection level [1-100]**
  The default level is 10. The item is to set detection level for each sampling pixel; the smaller the value, the more sensitive it is.

- **Sensitivity level [1-100]**
  The default level is 80, which means if 20% or more sampling pixels are detected differently, system will detect motion. The bigger the value, the more sensitive it is. Meanwhile, when the value is bigger, the red horizontal line in the motion indication window will be lower accordingly.

- **Time interval (sec) [0-7200]**
  The default interval is 10. The value is the interval between each detected motion.

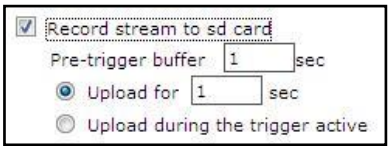
Triggered Action (Multi-option)

The Administrator can specify alarm actions that will take when motion is detected. All options are listed as follows:

- **Enable Alarm Output**
  Check the item and select the predefined type of alarm output to enable alarm relay output when motion is detected.

- **Record stream to SD Card**
  Select this item and the Motion Detection recording will be stored in Micro SD/ SDHC card when motion is detected.

  Pre-trigger buffer recording function allows users to check what happened to cause the trigger. The pre-trigger buffer time range is from 1 to 3 seconds. Select <Upload for __ sec> to set the recording duration after motion is triggered. The setting range is from 1 to 99999 seconds. Select <Upload during the trigger active> to record the triggered video until the trigger is off.



NOTE: Please make sure the local recording (with Micro SD/SDHC card) is activated so that this function can be implemented. Refer to 5.3.10 Recording for further details.

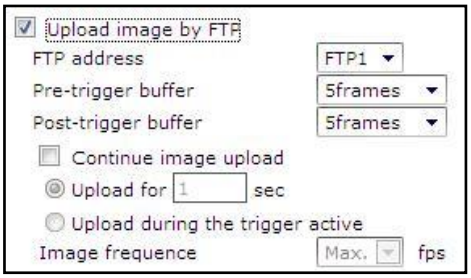
- **Send Alarm Message by FTP/E-Mail**
  The Administrator can select whether to send an alarm message by FTP and/or E-Mail when motion is detected.

- **Upload image by FTP**
  Select this item and the Administrator can assign a FTP site and configure various parameters as shown in the figure below. When motion is detected, event images will be uploaded to the appointed FTP site.

  <Pre-trigger buffer> function allows users to check what happened to cause the trigger. The <Pre-trigger buffer> frame rate could be pre-determined.

  On the other hand, <Post-trigger buffer> is for users to upload certain amount of images after motion event occurs.

  Check the box <Continue image upload> to upload the triggered images during certain time or keep uploading until the trigger is off. Select <Upload for __sec> and enter the duration in the blank. The images of the duration will be uploaded to FTP when the motion event occurs. The setting range is from 1 to 9999 seconds. Select <Upload during the trigger active> to make the images keep being uploaded to FTP during the trigger active until the event stops. Set the Image frequency as the upload frame rate. The setting range is from 1 frame to 15 frames.



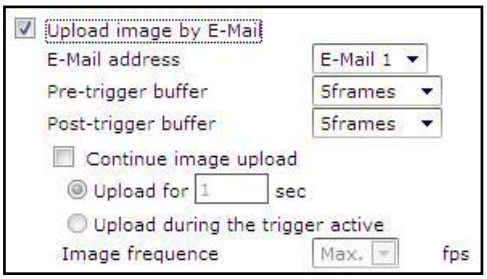
NOTE: Make sure FTP configuration has been completed. Refer to 5.3.6 FTP for further details.

- **Upload Image by E-Mail**
  Select this item and the Administrator can assign an e-mail address and configure various parameters as shown in the figure below. When motion is detected, event images will be sent to the appointed e-mail address.

  Pre-trigger buffer> function allows users to check what happened to cause the trigger. The <Pre-trigger buffer> frame rate could be pre-determined.

  On the other hand, <Post-trigger buffer> is for users to upload certain amount of images after the motion event occurs.

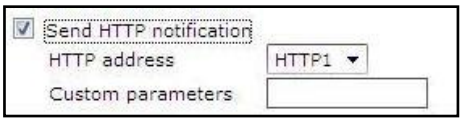
  Check the box <Continue image upload> to upload the triggered images during certain time or keep uploading until the trigger is off. Select <Upload for __sec> and enter the duration in the blank. The images of the duration will be uploading by E-mail when the motion event occurs. The setting range is from 1 to 9999 seconds. Select <Upload during the trigger active> to make the images keep being uploaded to E-mail during the trigger active until the event stops. Set the Image frequency as the upload frame rate. The setting range is from 1 frame to 15 frames.



NOTE: Make sure SMTP configuration has been completed. Refer to 5.3.5 Mail for further details.

- **Send HTTP notification**
  Check this item, select the destination HTTP address, and specify the parameters for event notifications by <Motion Detection> triggered. When an alarm is triggered, the notification can be sent to the specified HTTP server.

  For instance, if the custom parameter is set as" action=1&group=2", and the HTTP server name is" http://192.168.0.1/admin.php", the notification will be sent to HTTP server as" http://192.168.0.1/admin.php? action=1&group=2" when alarm is triggered.



File Name

The uploaded image's filename format can be set in this section. Please select the one that meets your requirements.

Save

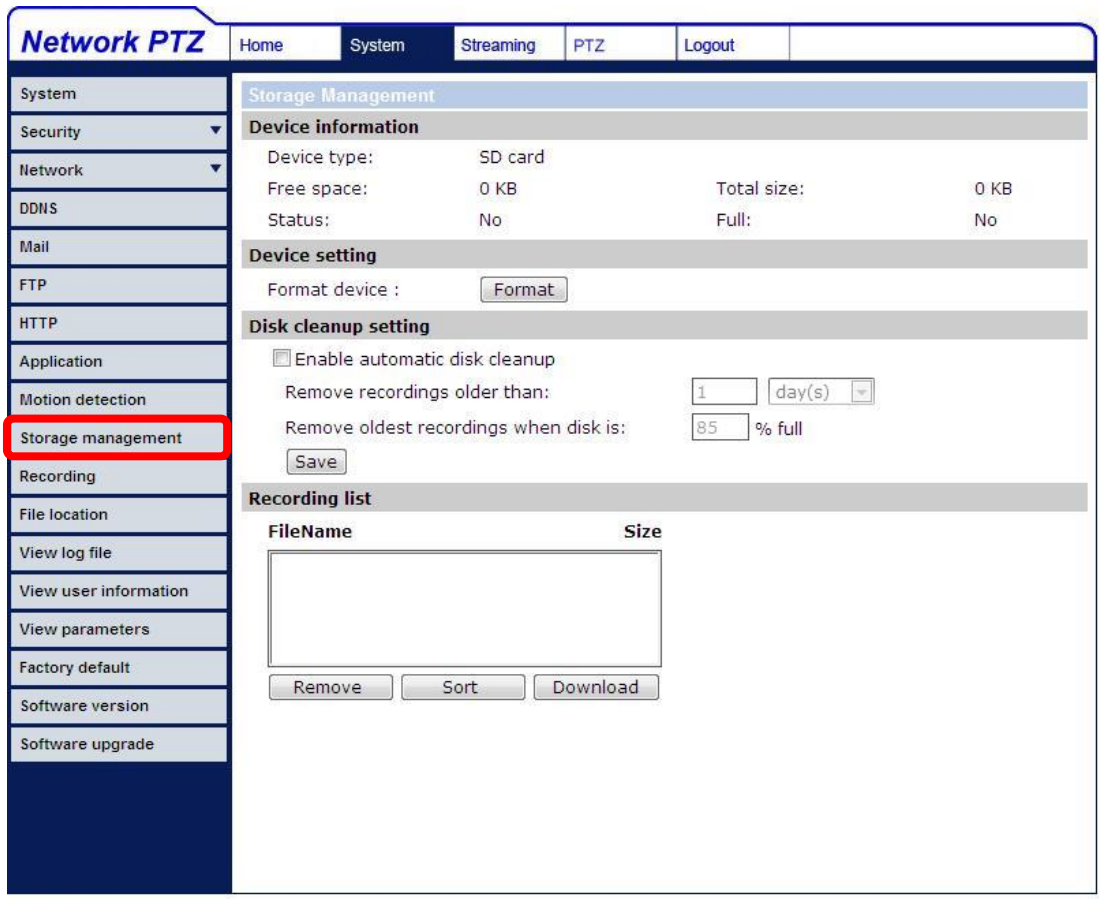
Click on the <Save> button to save all the Motion Detection settings mentioned above.

3.3.9 Storage Management

Users can implement local recording to the Micro SD/SDHC card up to 32GB. This page shows the capacity information of the Micro SD card and a recording list with all the recording files saved on the memory card. Users can also format the SD card and implement automatic recording cleanup through the setting page.

To implement Micro SD card recording, please go to the <Recording> page (refer to 5.3.10 Recording) for activation.

NOTE: Please format the Micro SD/SDHC card when using for the first time. Formatting will also be required when a memory card already being used on one camera and later transferred to another camera with different software platform.



Device information

When users insert the Micro SD/SDHC card, the card information such as the memory capacity and status will be shown at Device Information section.

For the memory card being successfully installed, its status shall be shown at <Device information> section in the Storage Management page.

Device setting

Click on the <Format> button to format the memory card.

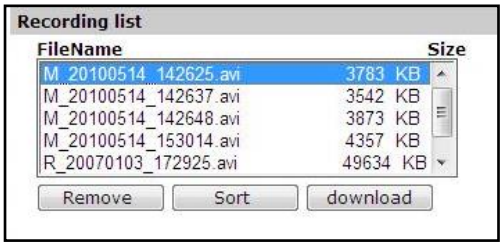
Disk cleanup setting

Users can enable automatic recordings cleanup by specifying the time and storage limits.

Recording List

Each video file on the Micro SD/SDHC card will be listed in the Recording list as shown below. The maximum file size is 60 MB (60 MB per file).

When the recording mode is set as <Always> (consecutive recording) and the Micro SD/ SDHC card recording is also allowed to be enabled by events triggered, once events occur, the system will immediately implement events recording to the memory card. Then the IP Camera will return to the regular recording mode after events recording.



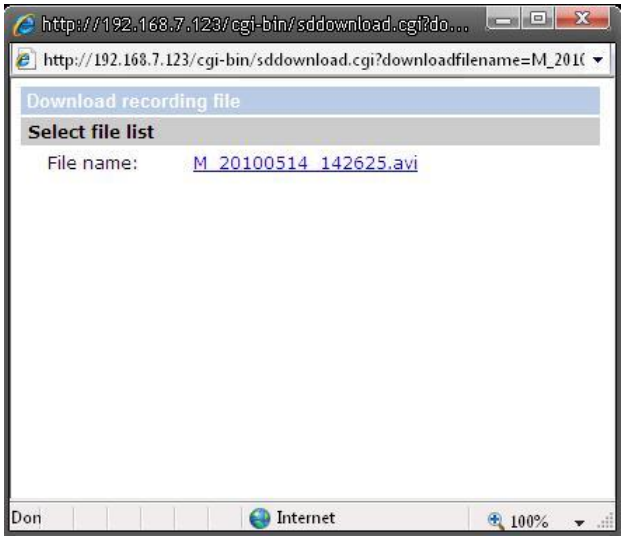
- **Remove**
  To remove a file, select the file first, and then press the <Remove> button.

- **Sort**
  Click on the <Sort> button, and the files in the Recording list will be listed in name and date order.

NOTE: The capital letter A/M/R appears in the very beginning of name denotes the sort of the recording: A stands for Alarm; M stands for Motion; R stands for regular recording.

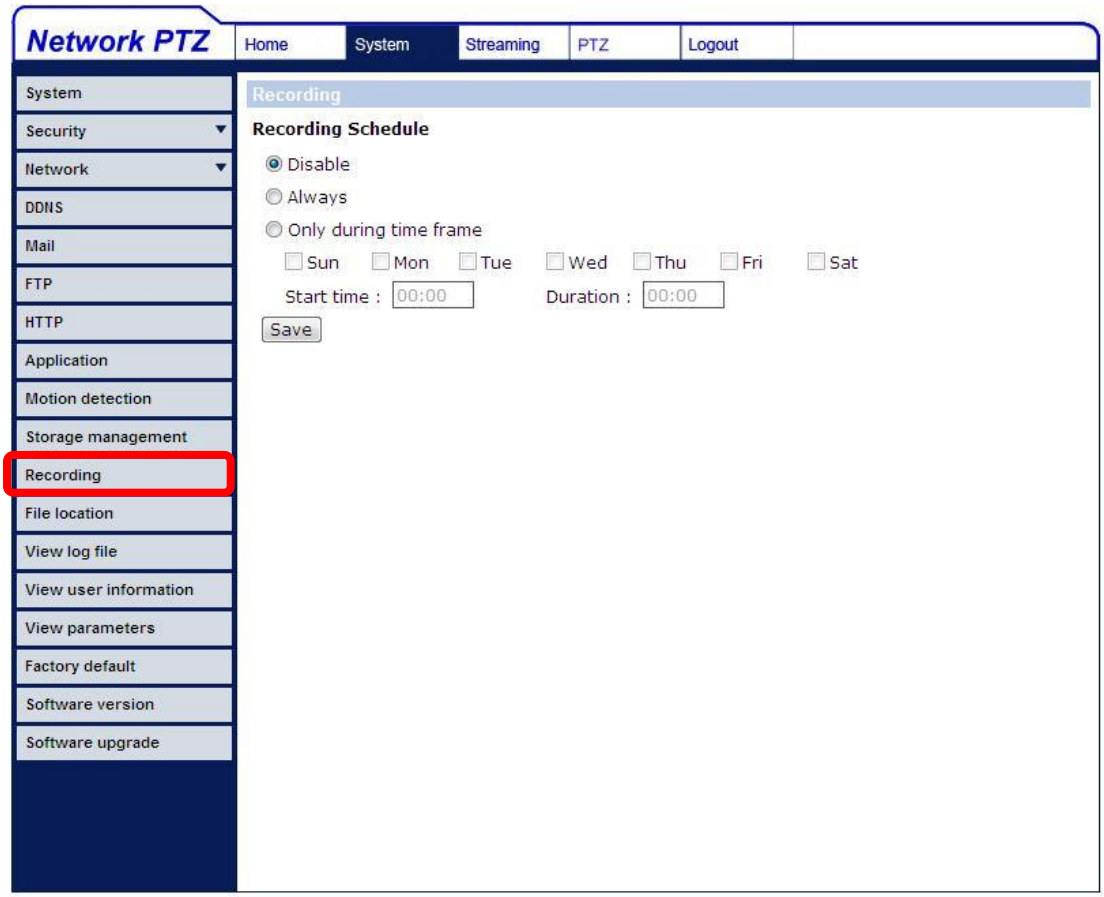
- **Download**

  To open/download a video clip, select the file first, and then click on the <download> button below the Recording list field. The selected file window will pop up as shown below. Click on the AVI file to directly play the video in the player or download it to a specified location.



3.3.10 Recording

In the Recording setting page, users can specify the recording schedule that fits the present surveillance requirement.



Activating Micro SD/SDHC Card Recording

Two types of schedule mode are offered: Always and Time Frame setting. Users can setup the time frame to fit the recording schedule or choose <Always> to activate Micro SD/SDHC Card Recording all the time.

Please click on the <Save> button for confirming the schedule mode.

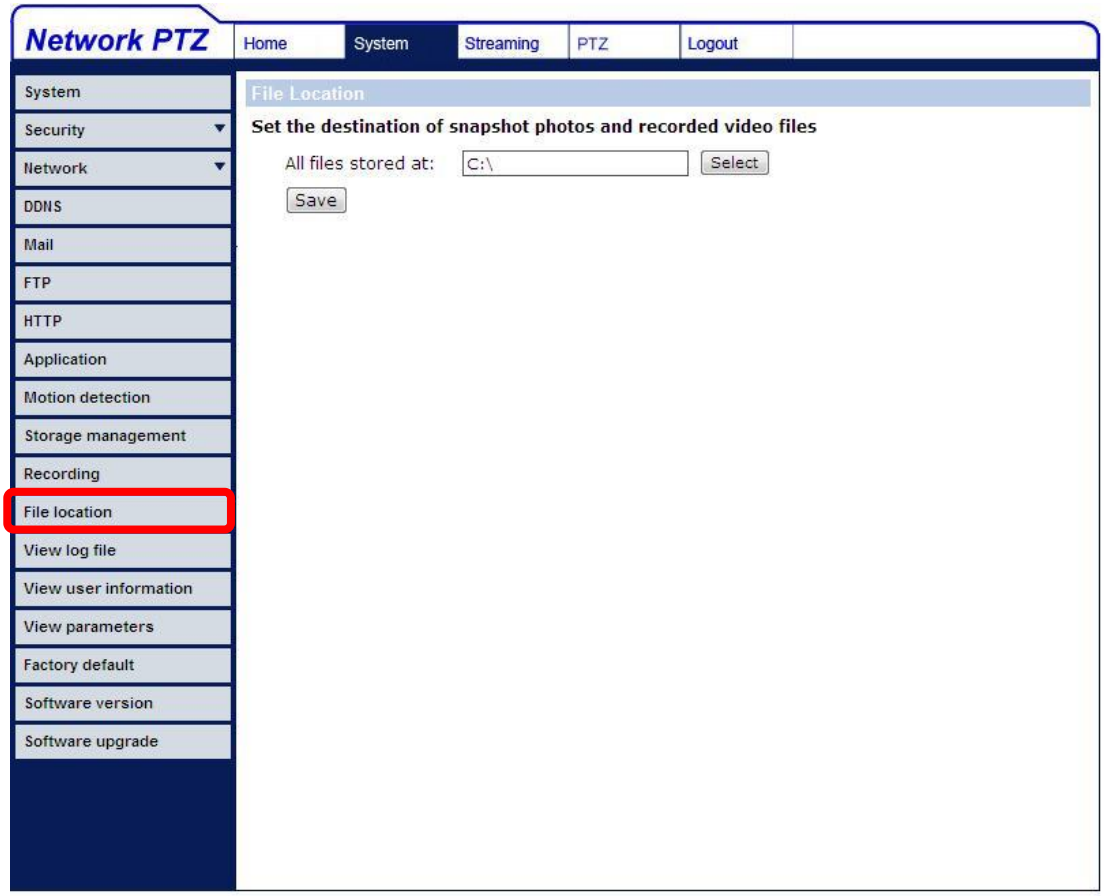
Terminating Micro SD/SDHC Card Recording

Select <Disable> to terminate the recording function.

3.3.11 File Location

The network Speed Dome Camera supports JPEG snapshot function. Users can specify a storage location for the snapshots. The default setting is: C:\. Once confirm the setting, click on <Save>, and all the snapshots will be saved in the designate location.

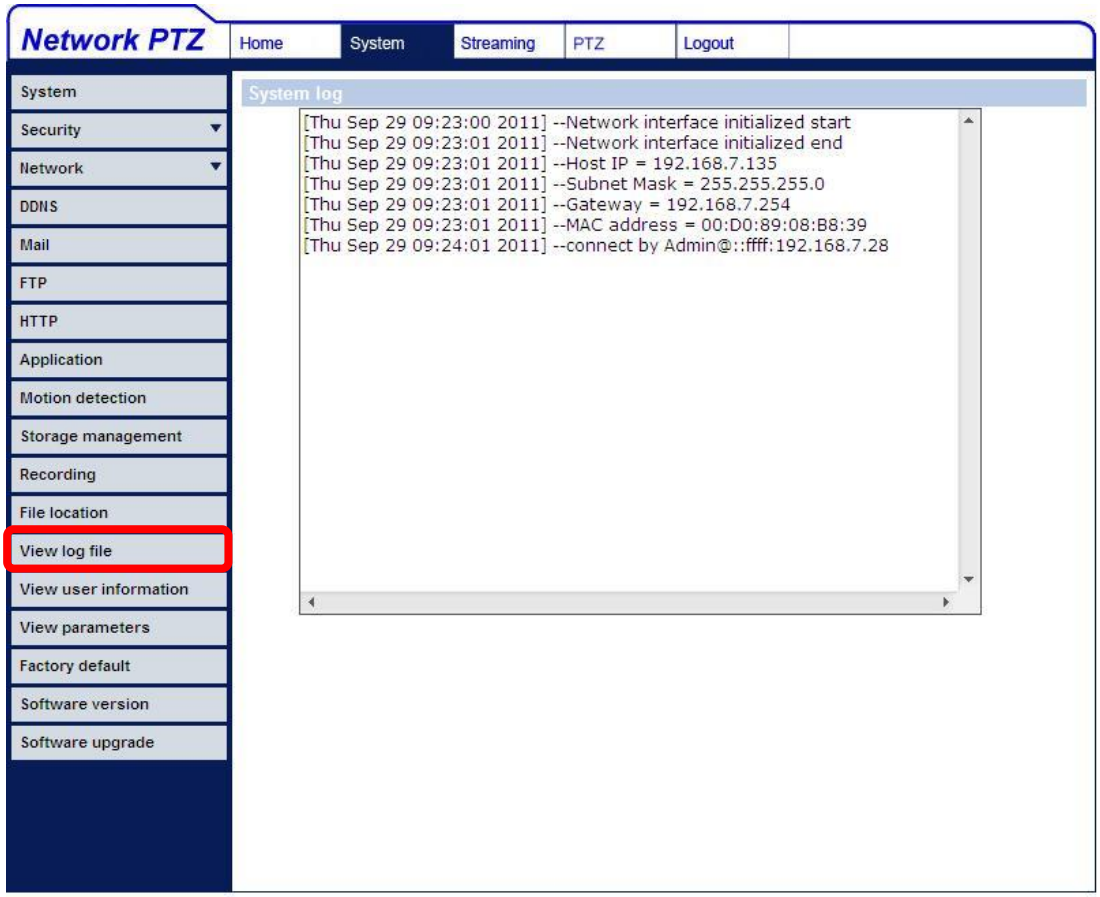
NOTE: Make sure the selected file path contains valid characters such as letters and numbers.



NOTE: For users with Windows 7 operating system, it is required to log on as an Administrator to implement the Snapshot and Web Recording function.

3.3.12 View Log File

Click on the link to view the system log file. The content of the file provides useful information about configuration and connections after system boot-up.



3.3.13 View User Information

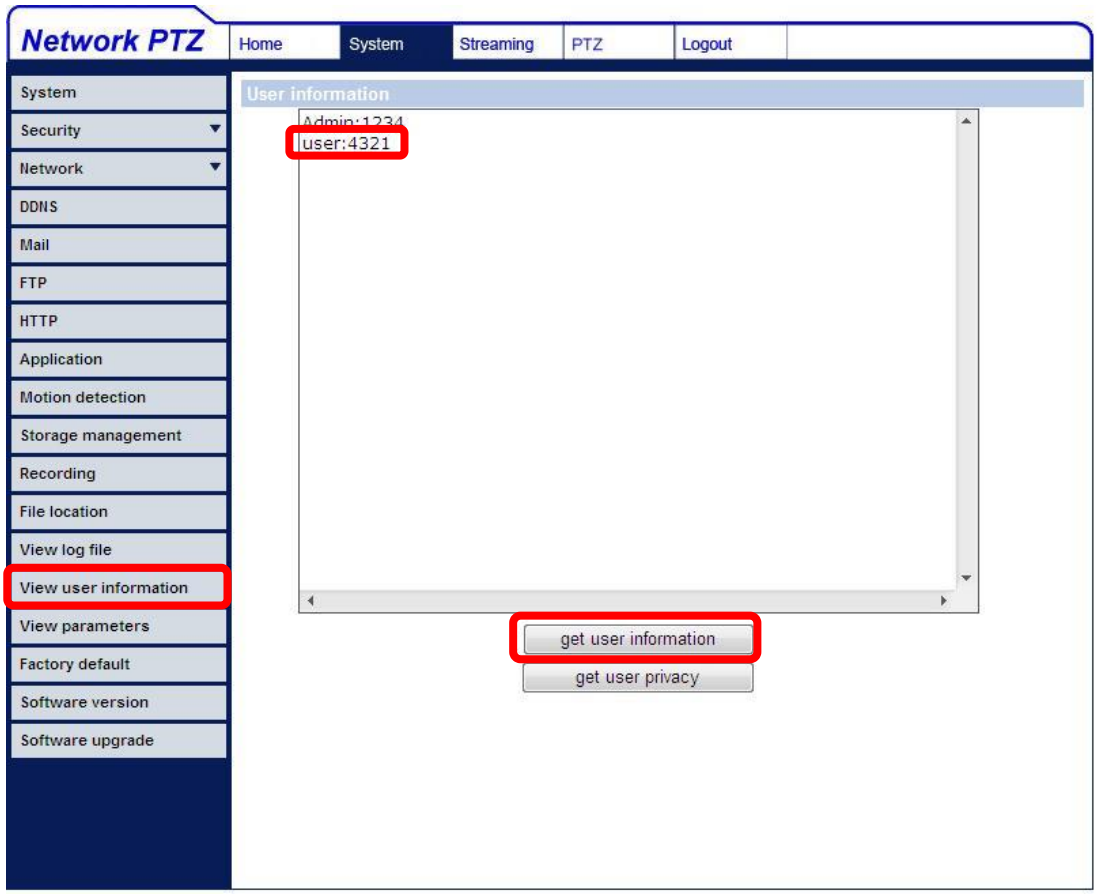
The Administrator can view each added user's login information and privileges (refer to 5.3.2 Security).

View User Login Information

All the users in the network will be listed in the <User information> zone, as shown below. As the figure below shows:

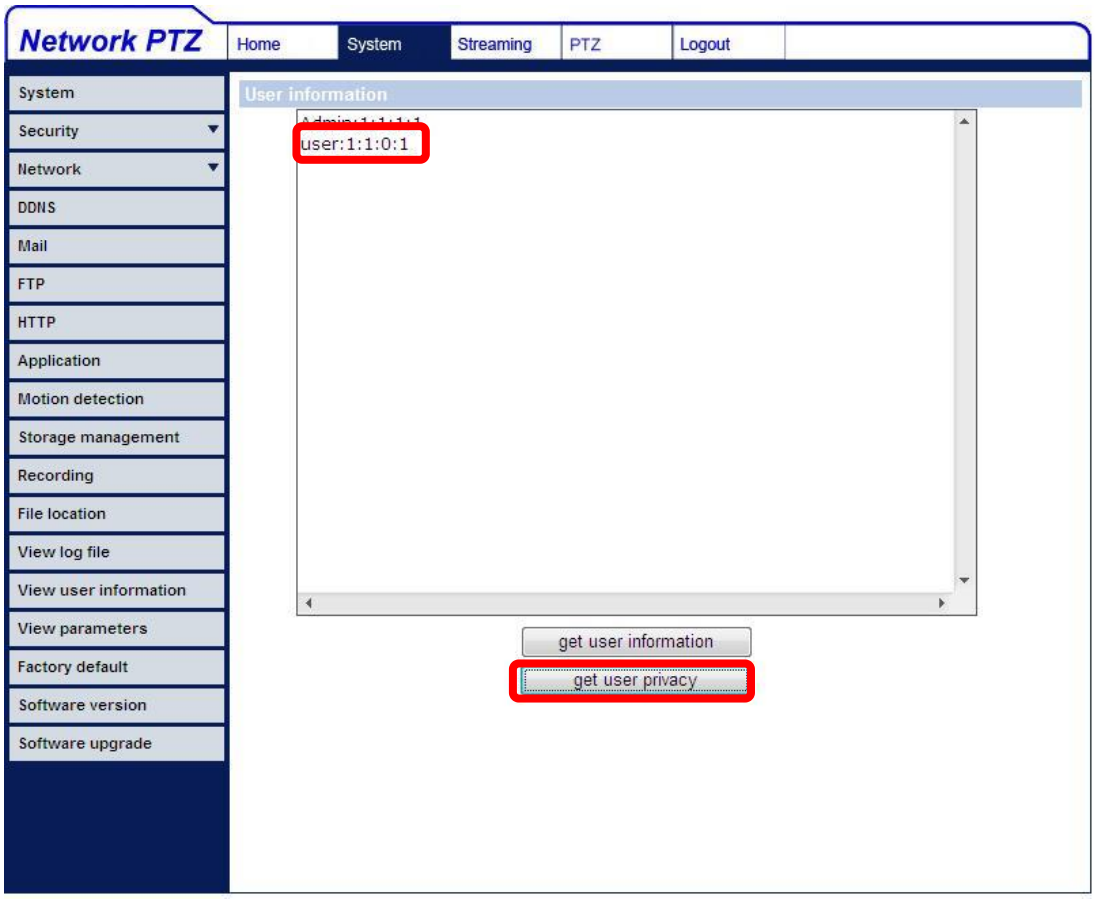
User: 4321

It indicates that one user's login username is "User", and password is "4321".



View User Privilege

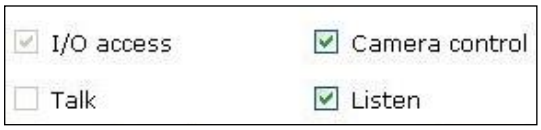
Click on <get user privacy> down the page and the Administrator can view each user's privileges.



As the figure above shows:

User: 1:1:0:1

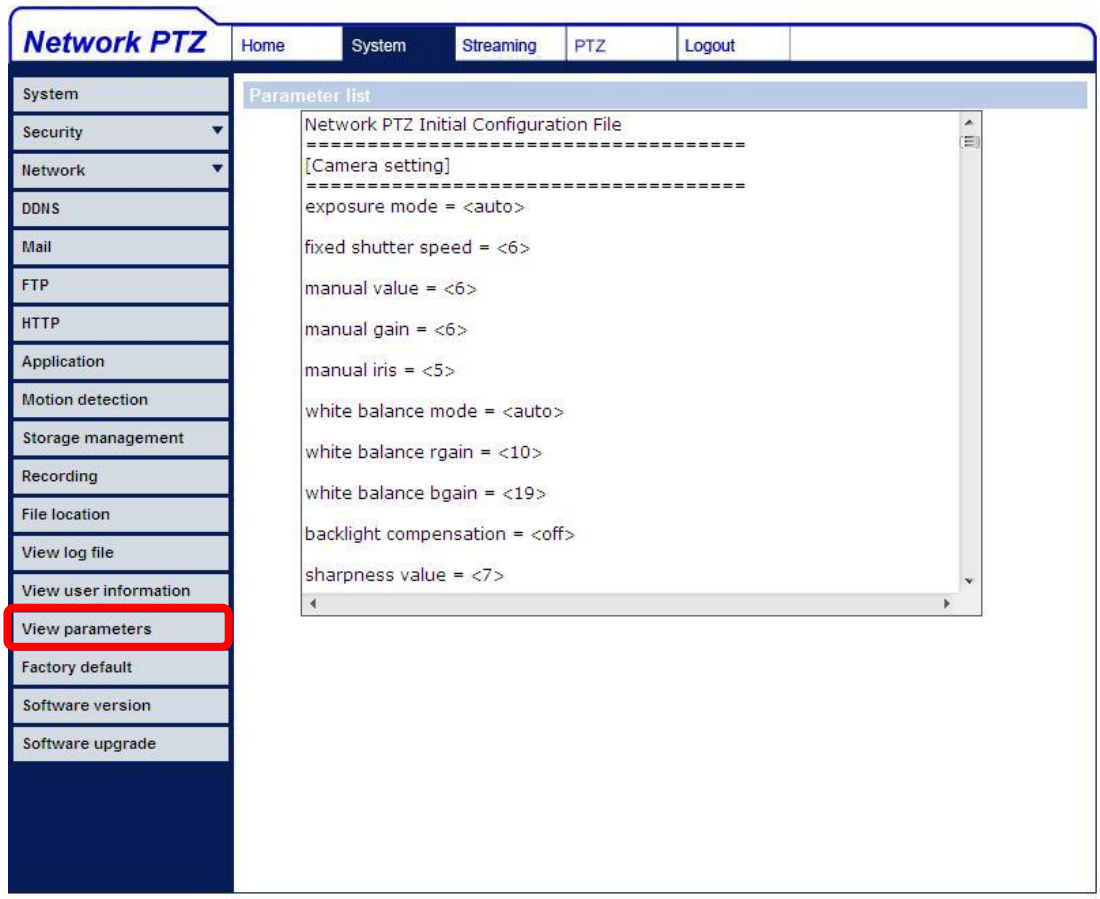
1:1:0:1= I/O access : Camera control : Talk : Listen (refer to 5.3.2 Security)



Therefore, it denotes the user is granted privileges of I/O access, Camera control and Listen.

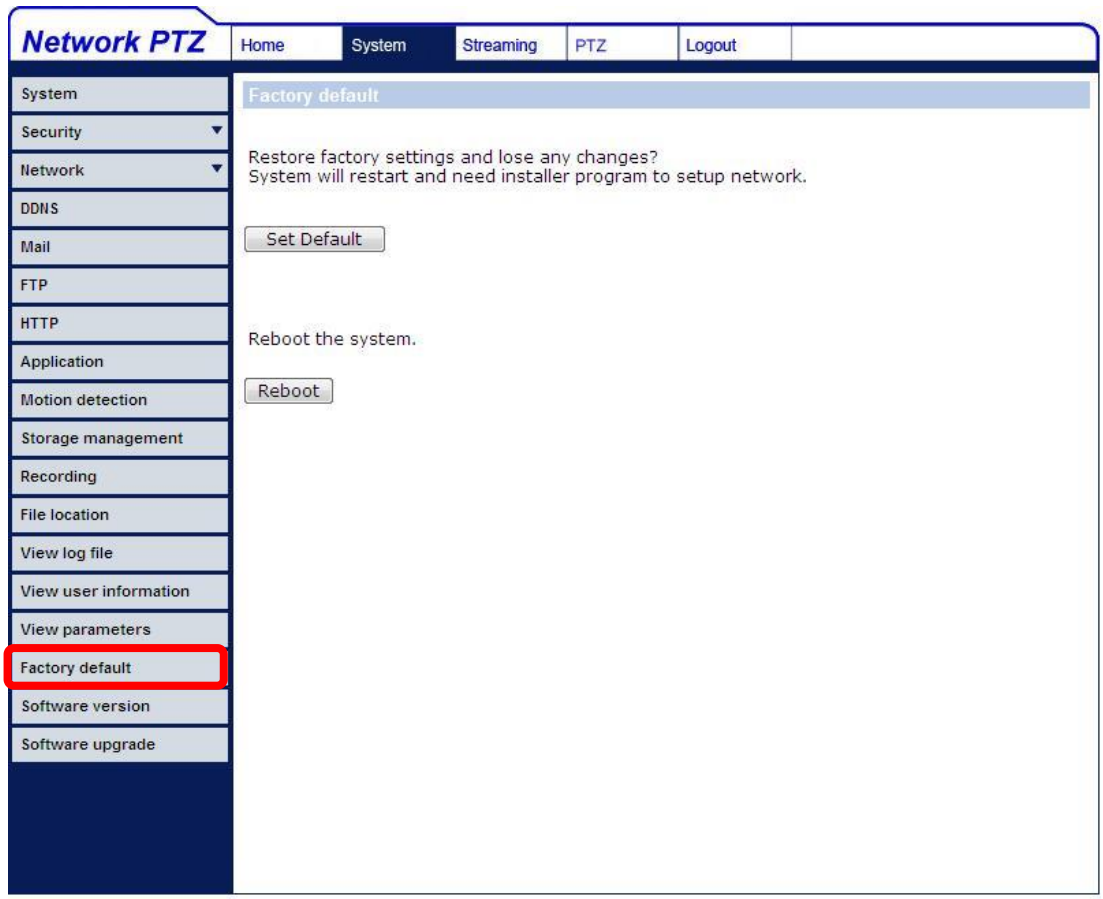
3.3.14 View Parameters

Click on this item to view the entire system's parameter setting.



3.3.15 Factory Default

The factory default setting page is shown as below. Follow the instructions to reset the network Speed Dome Camera to factory default settings if needed.



Set Default

Click on the <Set Default> button to recall the factory default settings. Then the system will restart in 30 seconds.

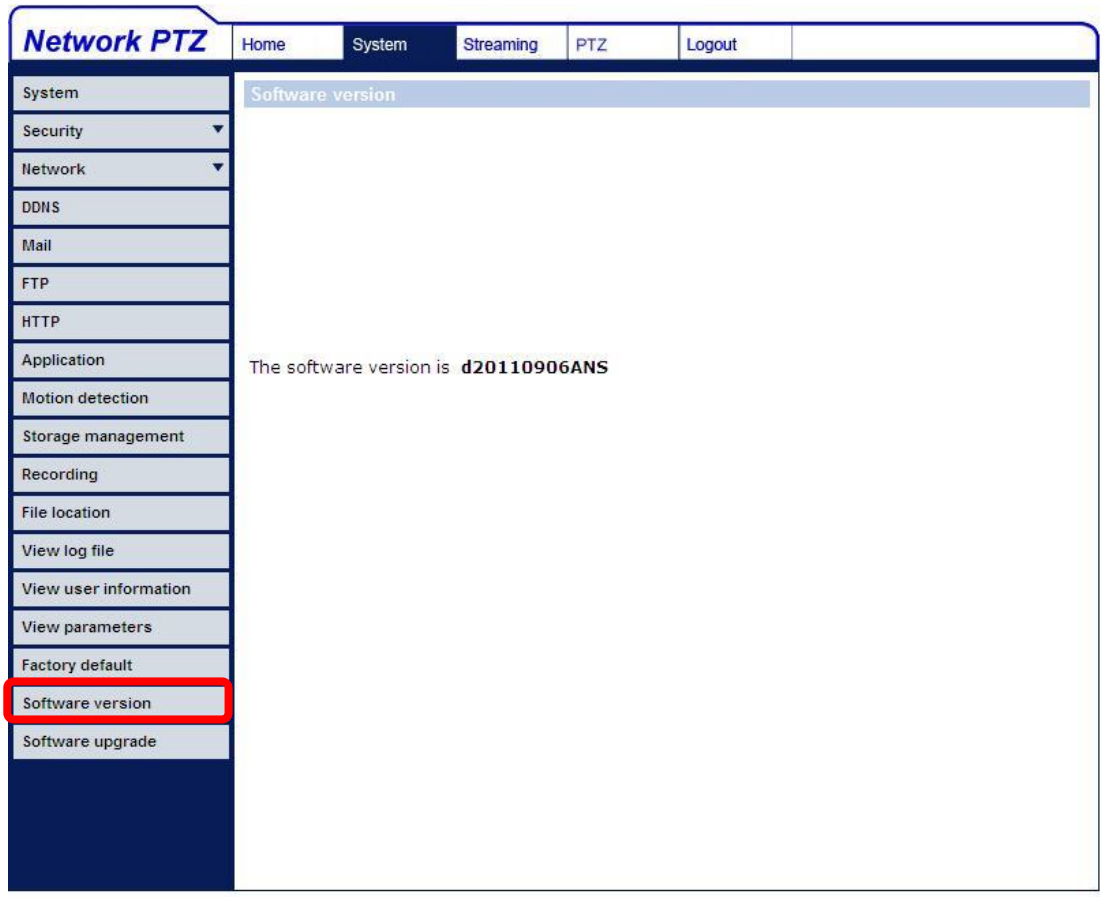
NOTE: The IP address will be restored to default.

Reboot

Click on the <Reboot> button, and the system will restart without changing current settings.

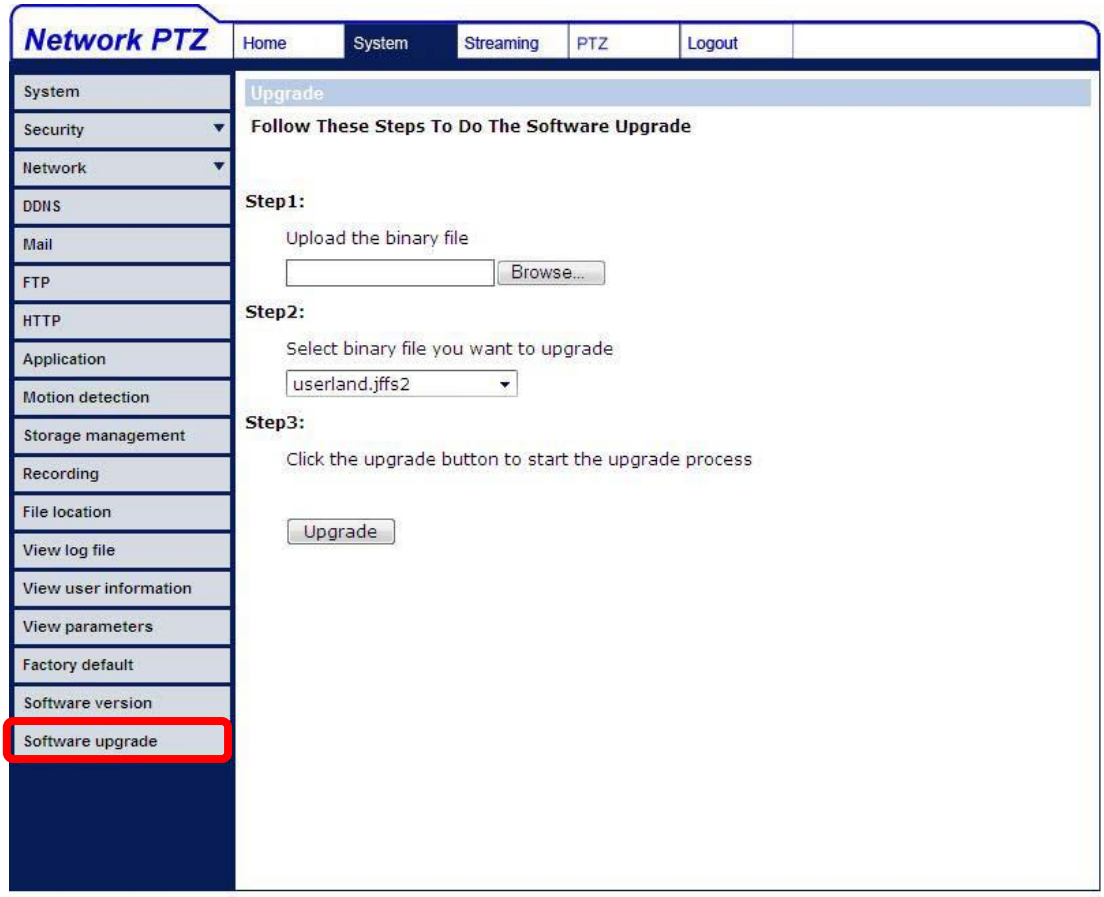
3.3.16 Software Version

The current software version is displayed in the software version page, which is shown as the figure below.



3.3.17 Software Upgrade

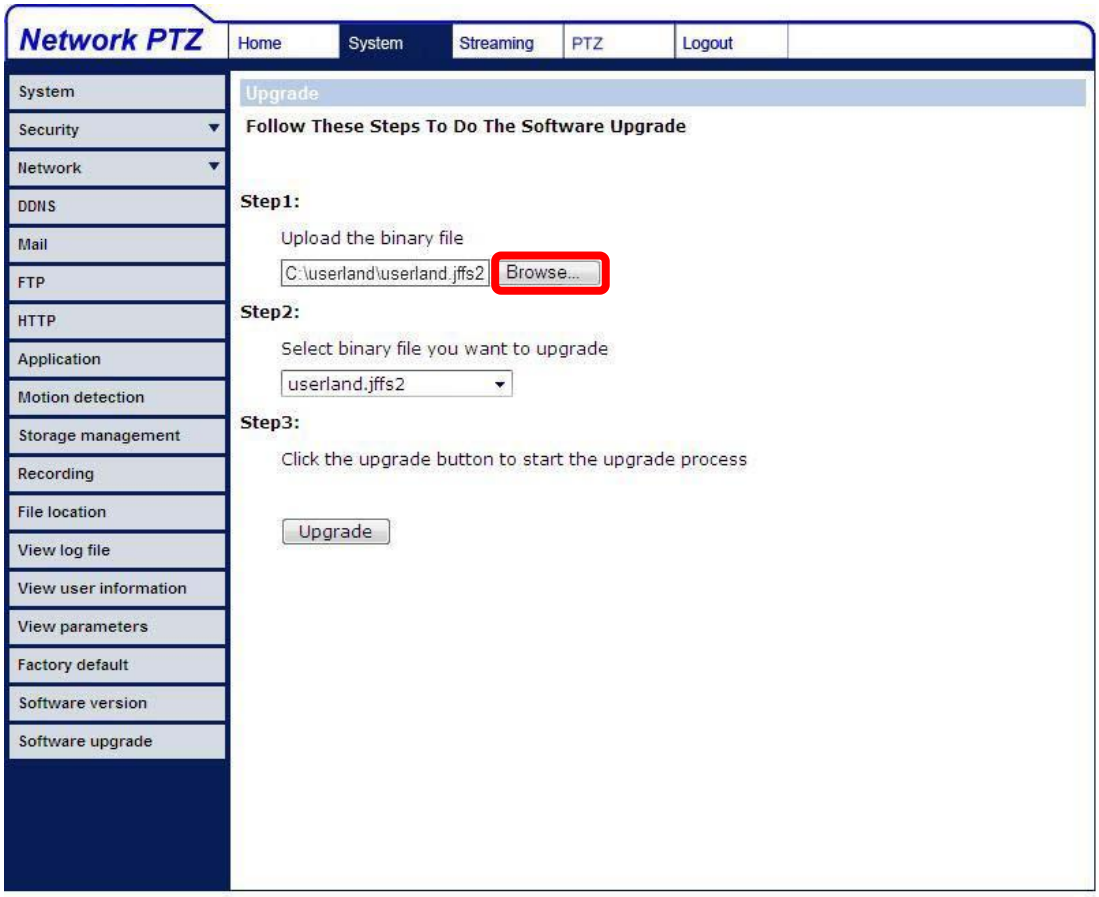
Software upgrade can be carried out in the <Software Upgrade> page, as shown below.



NOTE: Make sure the upgrade software file is available before carrying out software upgrade.

The procedure of software upgrade is like the following:

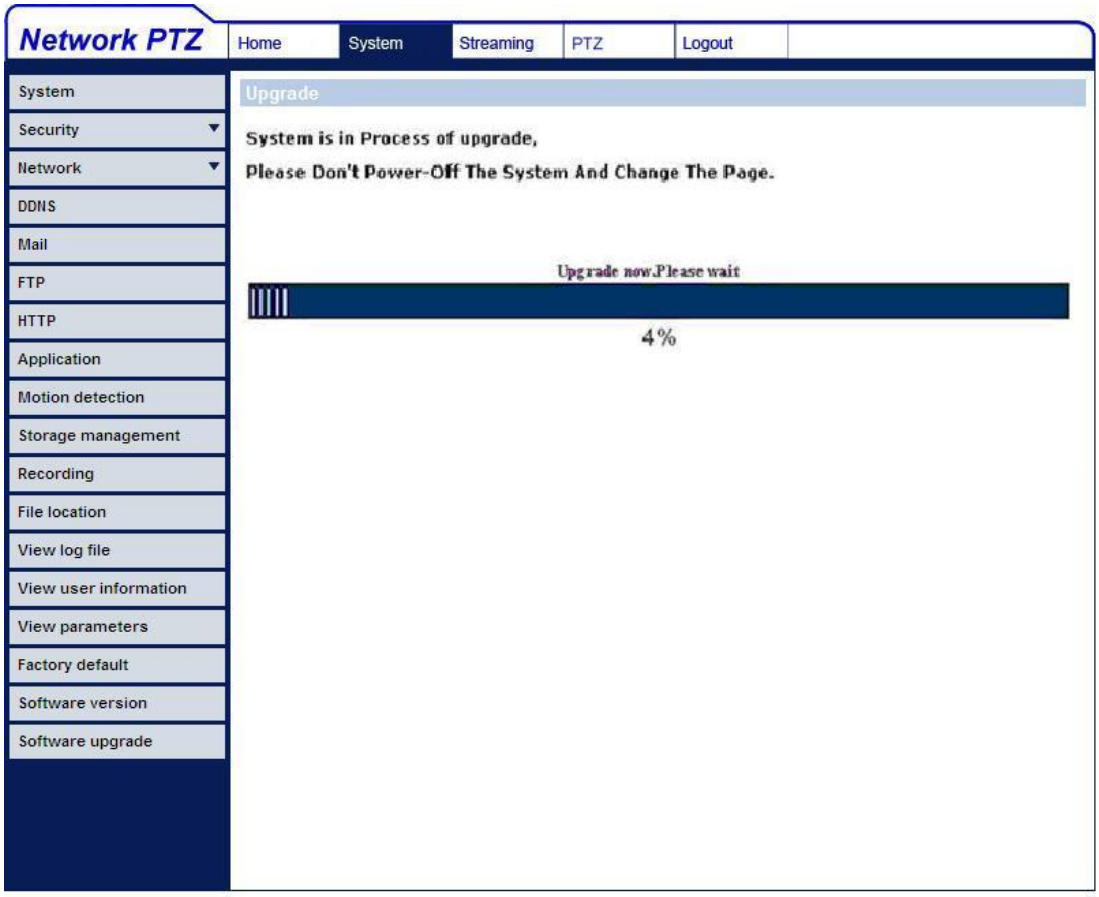
Step 1: Click on <Browse> and select the binary file to be uploaded, ex. userland.jffs2.



NOTE: Do not change the upgrade file name, or the system will fail to find the file.

Step 2: Pull down the upgrade binary file list and select the file you want to upgrade; in this case, select <userland.jffs2>.

Step 3: Click on <Upgrade>. The system will first check whether the upgrade file exists or not, and then begin to upload the upgrade file. Subsequently, the upgrade status bar will display on the page. When it runs to 100%, the upgrade process is finished.



After the upgrade process is finished, the viewer will return to Home page.

Step 4: Close the video browser.

Step 5: Enter “Control Panel”, and then double click on <Add or Remove Programs>. In the “Currently install programs” list, select “DCViewer” and click on the button <Remove> to uninstall the existing DC Viewer.

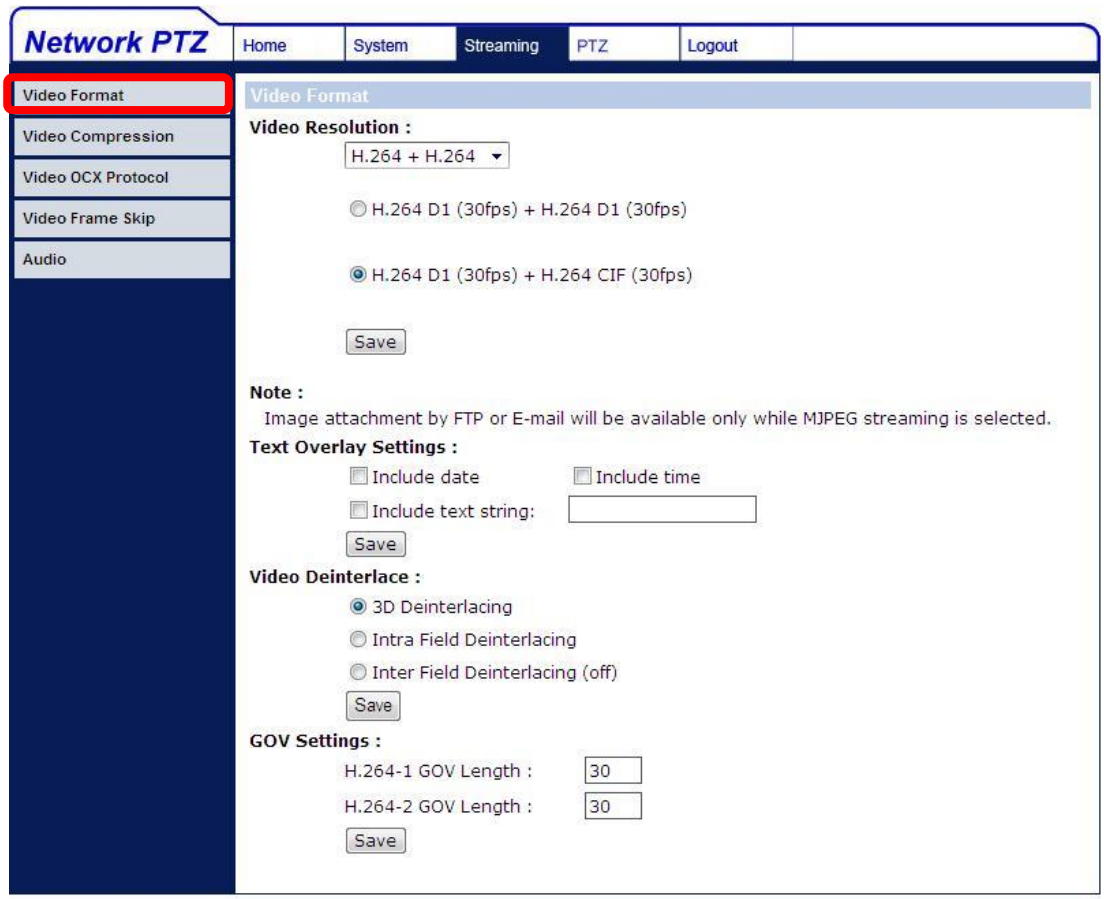
Step 6: Open a new web browser, re-login the IP Camera, and then allow the automatic download of DC Viewer.

3.4 Video and Audio Streaming Settings

Click on the tab <Streaming> in the top of the viewer window, and the configurable video and audio items will display in the left column. In <Streaming>, the Administrator can configure specific video resolution, video compression mode, video protocol, audio transmission mode, etc. Further details of these settings will be specified in the following sections.

3.4.1 Video Resolution and Video Deinterlacing Function

The video setting page is shown below:



Video Format

Resolution for MJPEG & H.264 format includes:

H.264 + MJPEG	H.264 D1 (30fps) + MJPEG D1 (30fps)*
	H.264 D1 (30fps) + MJPEC CIF (30fps)
H.264 + H.264	H.264 D1 (30fps) + H.264 D1 (30fps)
	H.264 D1 (30fps) + H.264 CIF (30fps)

(*) Default

Click on <Save> to confirm the Video Format setting.

Text Overlay Settings

Users can select the items to display data including date/time/text on the live video pane. The maximum length of the string is 18 alphanumeric characters.

Click on <Save> to confirm the Text Overlay setting.

Video Deinterlace

The network Speed Dome Camera supports de-interlacing function. Users can either choose to activate de-interlacing function or disable the function by selecting a mode from the list as shown below:

- 3D Deinterlacing
- Intra Field Deinterlacing
- Inter Field Deinterlacing (off)

Click on <Save> to confirm the Video Format setting.

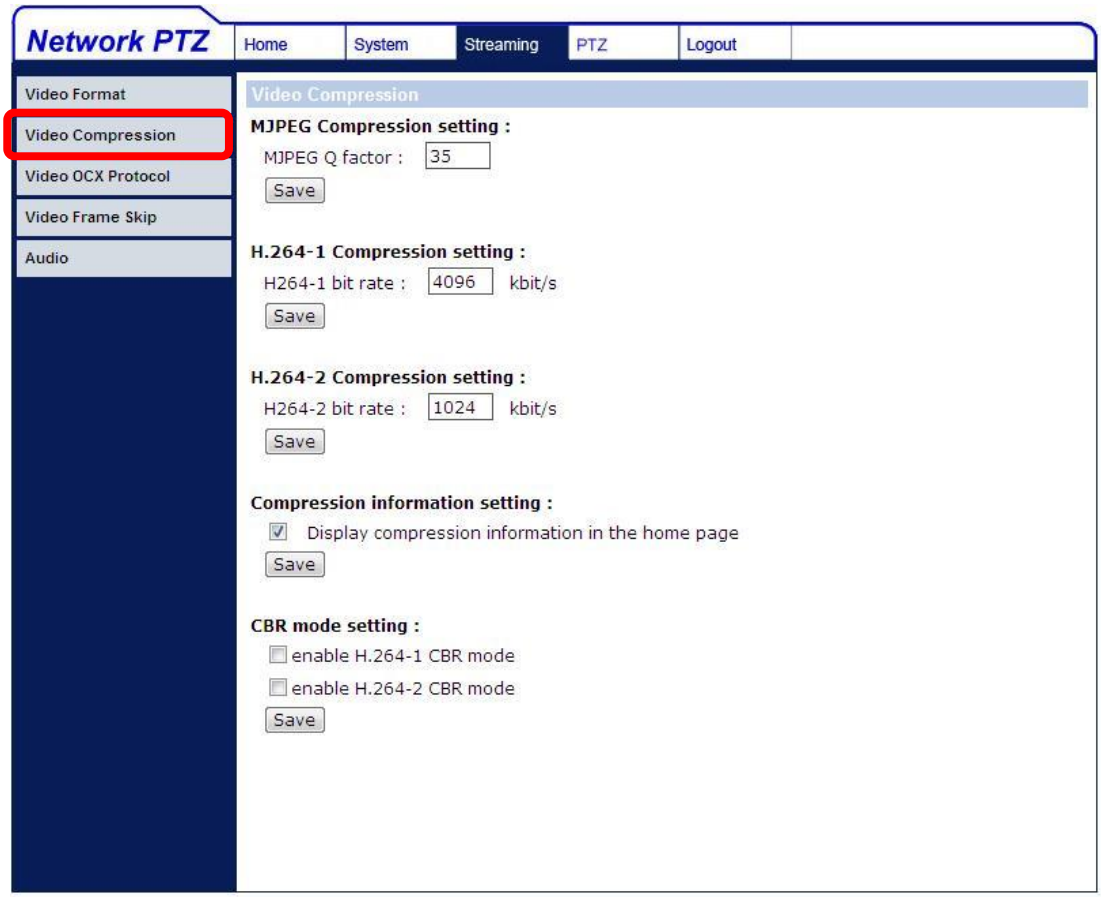
GOV Settings

Users can set the GOV length to determine the frame structure (I-frames and P-frames) in a video stream for saving bandwidth. Longer GOV means decreasing the frequency of I-frames.

Click on <Save> to confirm the GOV setting.

3.4.2 Video Compression

Users can select a proper MJPEG/H.264 compression mode on the video compression page (see the figure below), depending on the application.



MJPEG Q (Quality) factor

Higher value implies higher bit rates and higher visual quality. The default setting of MJPEG Q factor is 35; the setting range is from 1 to 70. Click on <Save> to confirm the setting.

H.264-1/ H.264-2 bit rate

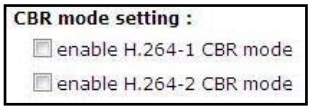
The default setting of H.264-1/ H.264-2 is 4096 kbit/s; the setting range is from 64 to 8192 kbit/s. Click on <Save> to confirm the setting.

NOTE: The maximum value of the H.264-2 bit rate is 1024 kbit/s when the resolution is set as “H.264 720p (30fps) + H.264 QVGA (30fps Baseline)”.

Display Compression Information

Users can also decide whether to display compression information on the Home page. Click on <Save> to confirm the setting.

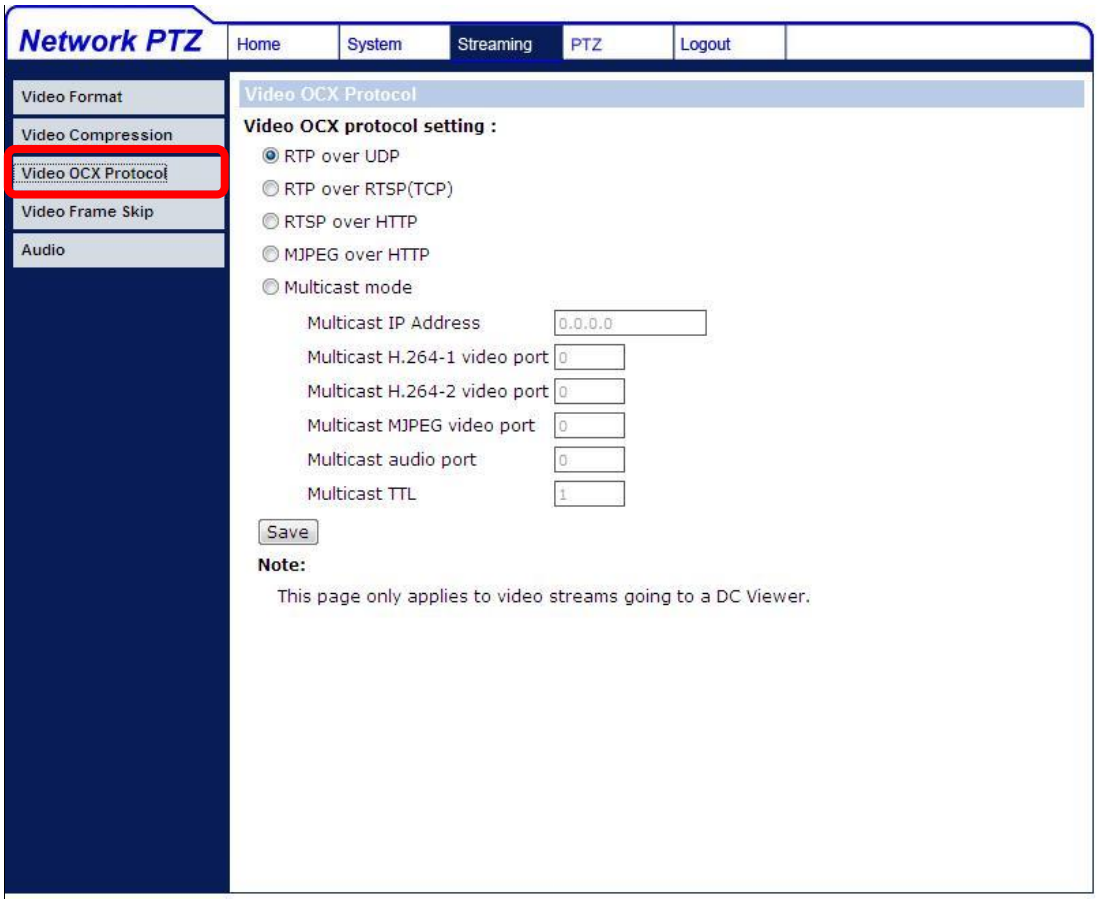
CBR Mode Setting



The CBR (Constant Bit Rate) mode could be the preferred bit rage mode if the bandwidth available is limited. It is important to take account of image quality while choosing to use CBR mode.

3.4.3 Video OCX Protocol

In the Video OCX protocol setting page, users can select RTP over UDP, RTP over TCP, RTSP over HTTP or MJPEG over HTTP, for streaming media over the network. In the case of multicast networking, users can select the Multicast mode. The page is shown as follows.



Video OCX protocol setting options include:

- **RTP over UDP/ RTP over RTSP(TCP)/ RTSP over HTTP/ MJPEG over HTTP**

  Select a mode according to your data delivery requirements.

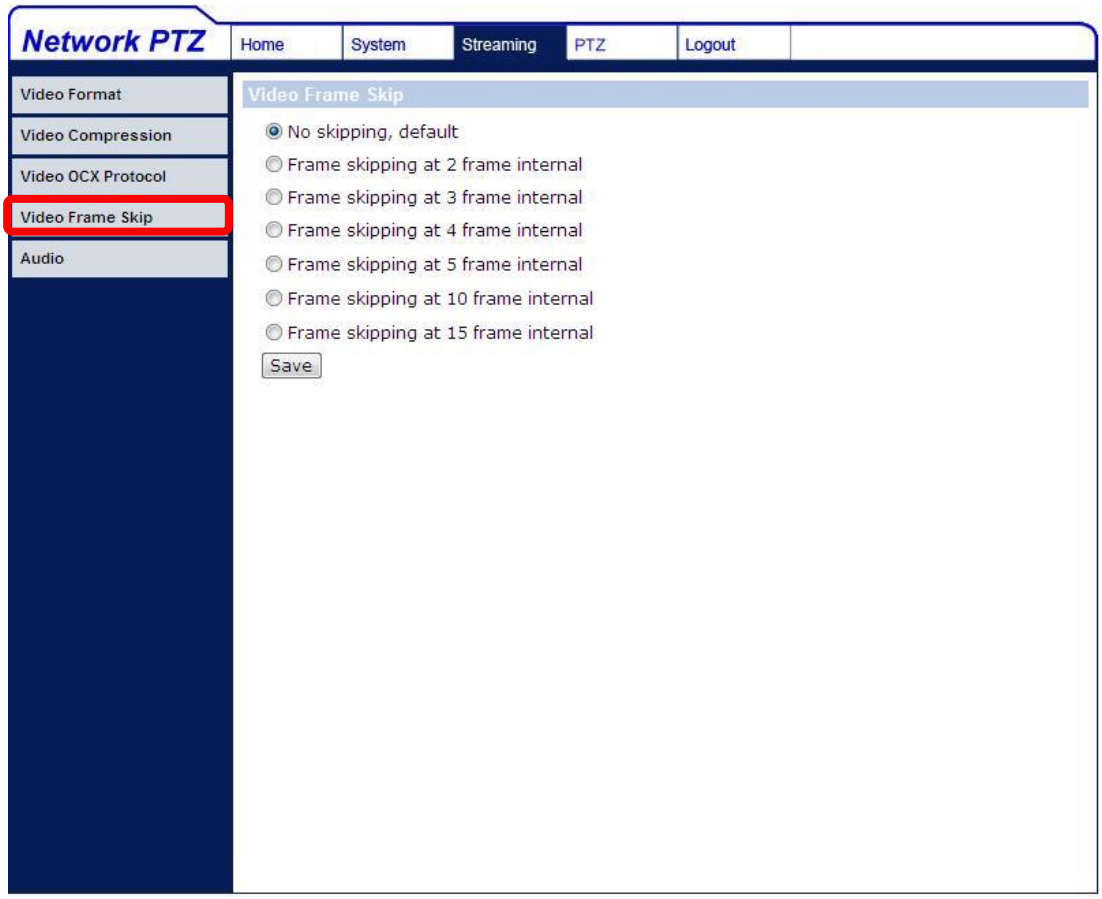
- **Multicast Mode**

  Enter all required data, including multicast IP address, H.264 video port, MJPEG video port, audio port and TTL into each blank.

Click on <Save> to confirm the setting.

3.4.4 Video Frame Skip

Video frame skipping is for saving bandwidth, if necessary. The setting page is as shown below.



MJPEG/ H.264 Frame Skip options include:

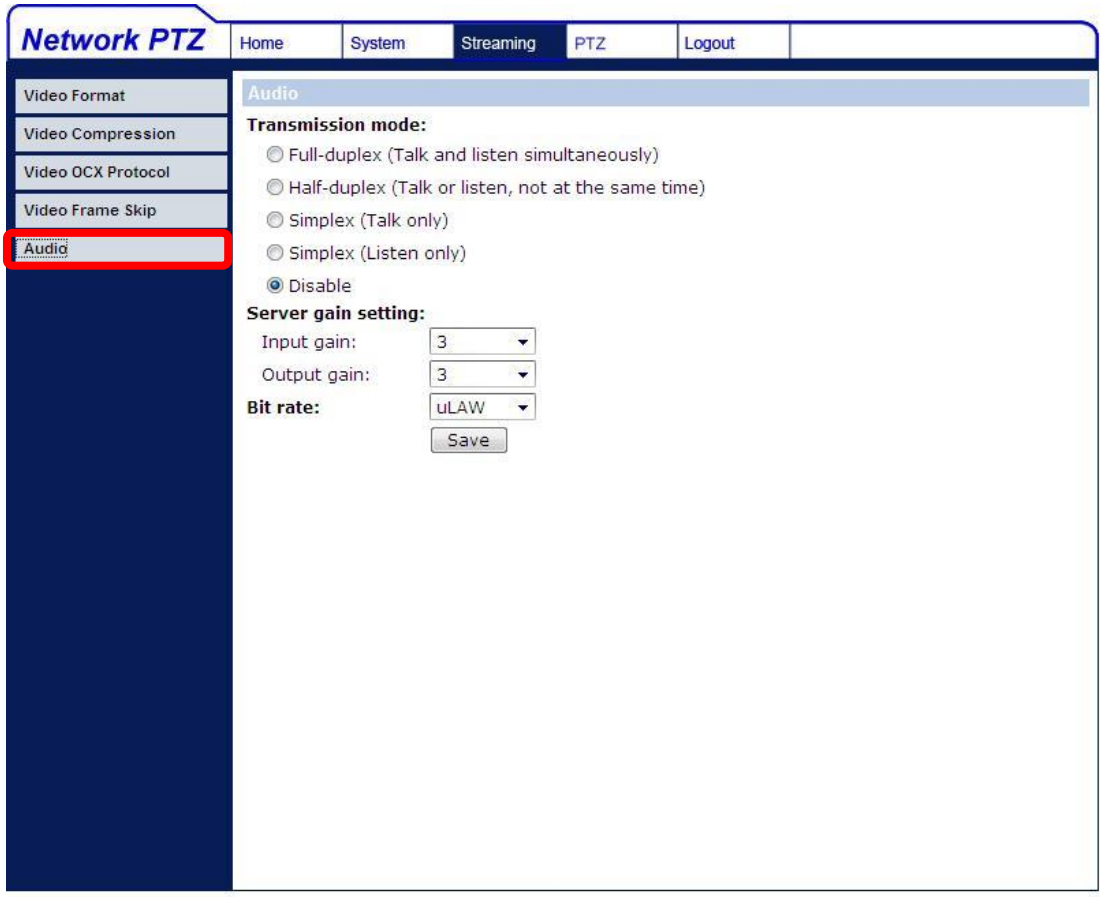
- No skipping, default
- Frame skipping at 2 frame internal
- Frame skipping at 3 frame internal
- Frame skipping at 4 frame internal
- Frame skipping at 5 frame internal
- Frame skipping at 10 frame internal
- Frame skipping at 15 frame internal

Click on <Save> to confirm the setting.

NOTE: Higher frame skipping rate will decrease video smoothness.

3.4.5 Audio Mode and Bit Rate Settings

The audio setting page is show as below. In the Audio page, the Administrator can select one transmission mode and audio bit rate.



Transmission Mode

- **Full-duplex (Talk and Listen simultaneously)**
- In the Full-duplex mode, the local and remote sites can communicate with each other simultaneously, i.e. both sites can speak and be heard at the same time.

- **Half-duplex (Talk or Listen, not at the same time)**
- In the Half-duplex mode, the local/remote site can only talk or listen to the other site at a time.

- **Simplex (Talk only)**
- In the Talk only Simplex mode, the local/remote site can only talk to the other site.

- **Simplex (Listen only)**
- In the Listen only Simplex mode, the local/remote site can only listen to the other site.

- **Disable**
- Select the item to turn off the audio transmission function.

Server Gain Setting

Set the audio input/output gain levels for sound amplification. The audio gain values are adjustable from 1 to 6. The sound will be turned off if the audio gain is set to <Mute>.

Bit Rate

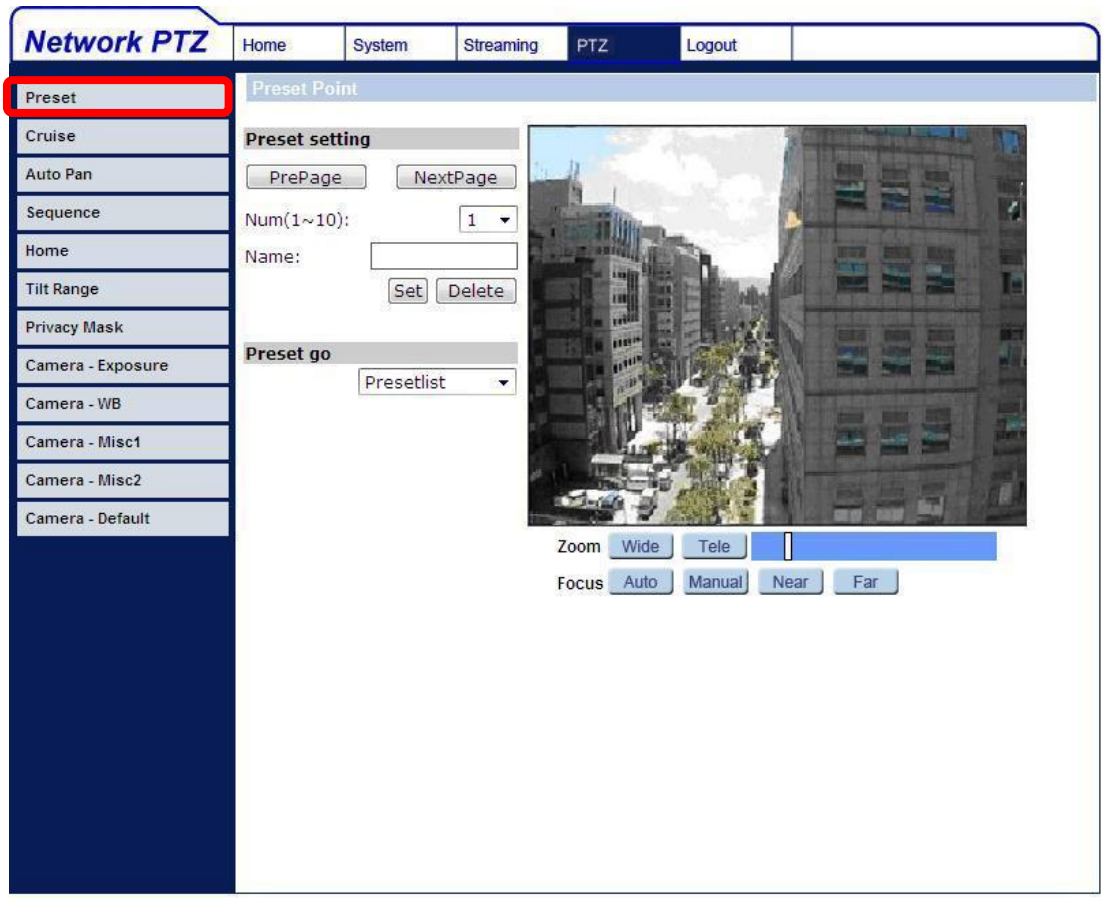
Selectable audio transmission bit rate include 16 kbps (G.726), 24 kbps (G.726), 32 kbps (G.726), 40 kbps (G.726), uLAW (G.711) and ALAW (G.711). Both uLAW and ALAW signify 64 kbps but in different compression formats. Higher bit rate will let higher audio quality and require bigger bandwidth.

Click on <Save> to confirm the setting.

3.5 PTZ Settings

Under the tab <PTZ>, there are categories including: <Preset>, <Cruise>, <Auto Pan>, <Sequence>, <Home>, <Tilt Range>, <Privacy Mask>, <Camera- Exposure>, <Camera- WB>, <Camera- Misc1>, <Camera- Misc2>, and <Camera- Default>.

3.5.1 Preset Programming



Totally 256 Preset Points can be programmed for the network Speed Dome Camera. Please refer to the instructions below to set a Preset Point.

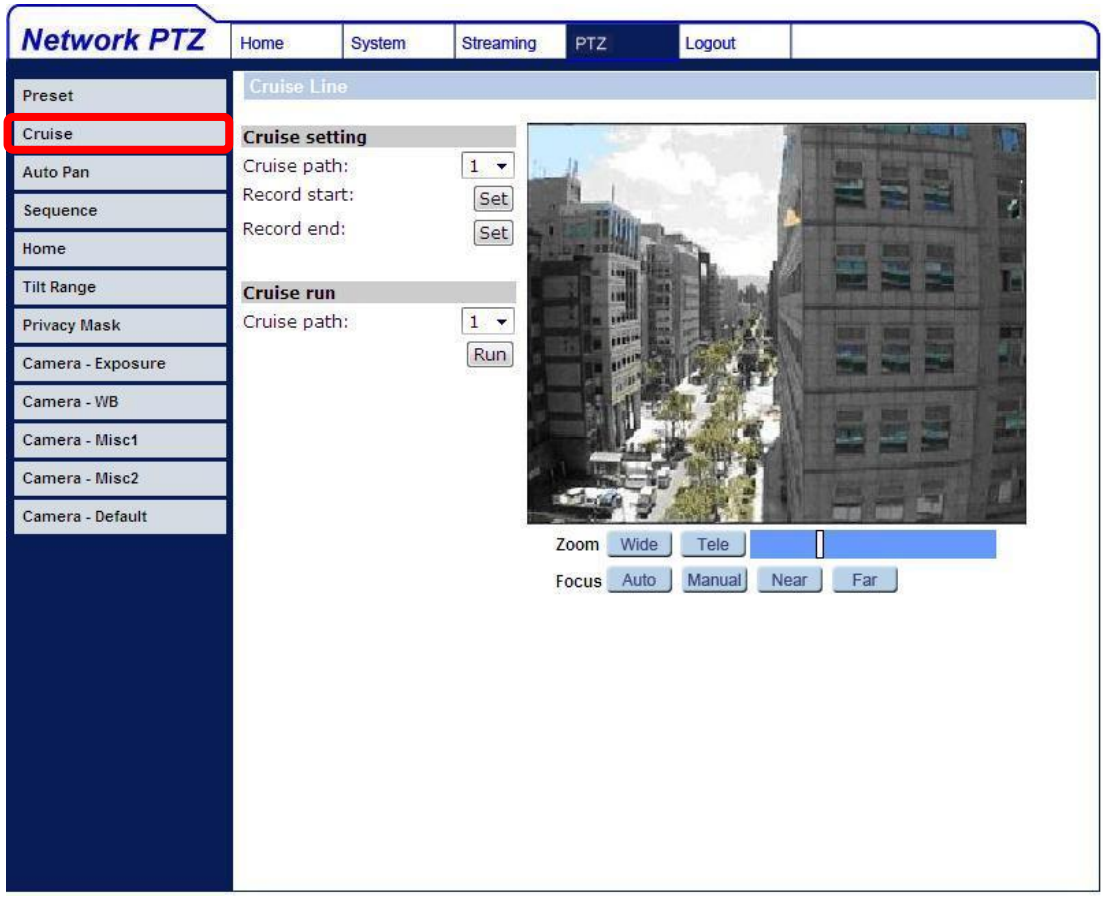
Preset Setting

To setup a Preset Point, please first move the cursor to the live view pane. Then left click and drag the red pointer with PTZ controls to a desired position and adjust the fine zoom/ focus ratio. Subsequently, assign a number for the current position from the drop-down Number List (click on <PrePage> or <NextPage> button to reach number 1 to 256), and enter its descriptive name. Click on the button <Set> to save the settings mentioned above.

Preset Go

To have the camera move to a specified Preset position, please select the Preset Point from the drop-down Preset list (click on <PrePage> or <NextPage> button to reach preset number 1 to 256). Then the camera shall readily move to the target position.

3.5.2 Cruise Programming



The network Speed Dome Camera supports up to eight Cruise Paths. Please follow the instructions below for Cruise Path setup.

Cruise Setting

To setup a Cruise Path, please first select a path number from the drop-down list. Then move the cursor to the live view pane, and move the camera to a desired view (PTZ controls) as the start point of a Cruise Path. Click the <Set> button of <Record Start> and start programming the Cruise Path via PTZ controls. When finishing programming, click the <Set> button of <Record End> to quit. Then this Cruise Path will be automatically recorded.

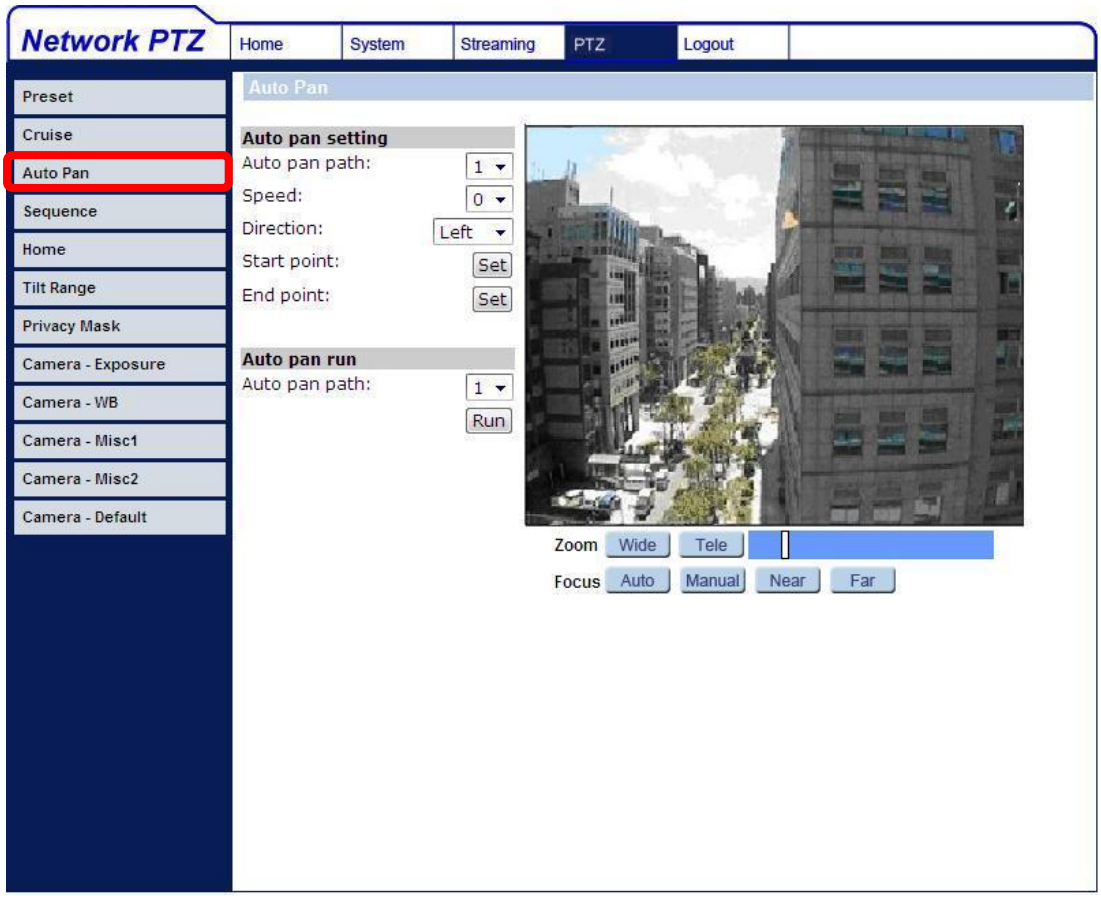
Cruise Run

Select the specified Cruise Path from the drop-down list, click on the <Run> button, and then the camera will start touring around as recorded.

To view the camera touring around in full screen mode, please move the cursor onto the live view pane, right-click and left-click to select “fullscreen”. Then users can view the camera navigation in full screen.

To stop running a Cruise Path, simply move the cursor to the live view pane and move the camera in any direction.

3.5.3 Auto Pan Programming



The network Speed Dome Camera supports four Auto Pan Paths. Please refer to the instructions below to set an Auto Pan Path.

Auto Pan Setting

To setup an Auto Pan Path, please first select a path number from the drop-down list. Then move the cursor to the live view pane, and move the camera to a desired view as the Start Point of an Auto Pan Path. Click on the <Set> button of the <Start Point>, and the current view will be automatically saved as the start point of the Auto Pan Path.

NOTE: The room ratio of an Auto Pan's Start Point will persist throughout the whole path.

Enter the speed ratio into the Speed field; the speed ratio ranges from 0 (low) to 3 (fast). Then choose to run the Auto Pan Path in right/left direction from the Direction drop-down list.

Move the camera to another desired position as the end point of the Auto Pan Path. Click on the <Set> button of the <End Point> for saving the setting.

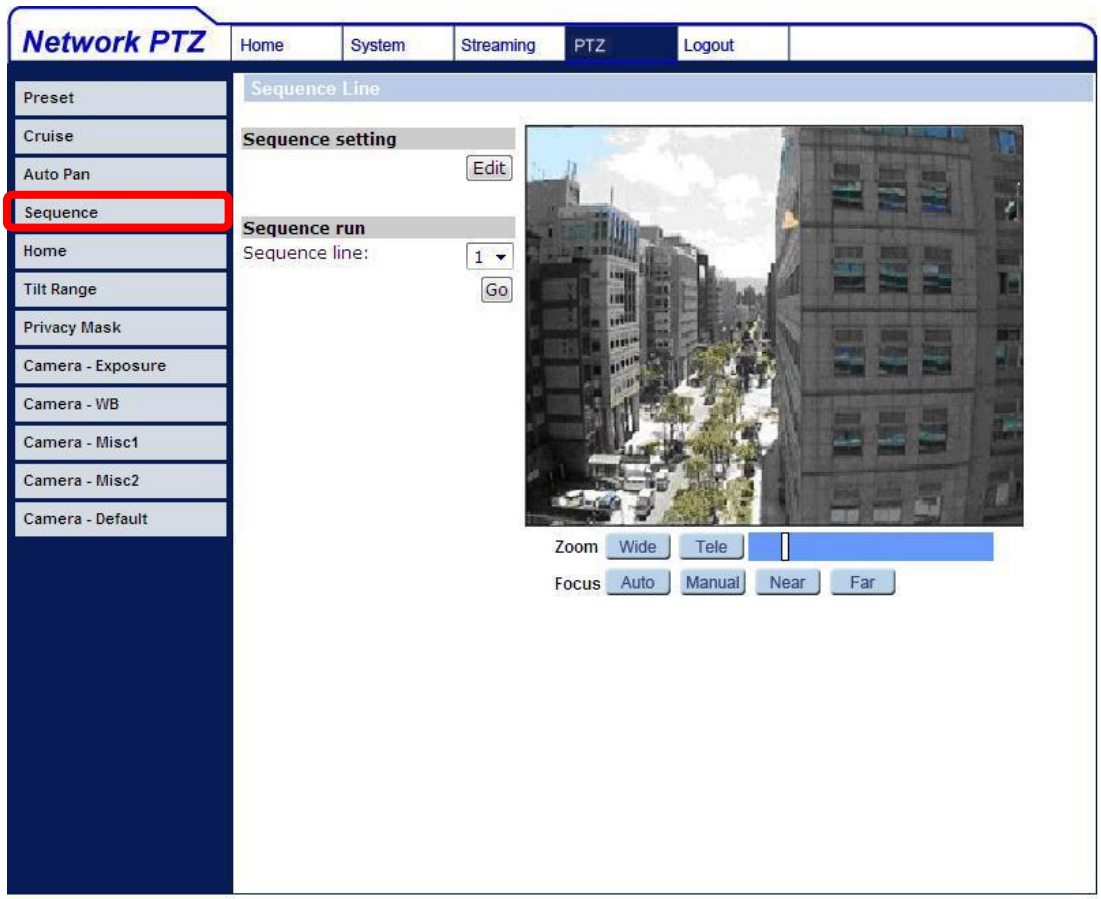
Auto Pan Run

Select the specified Auto Pan Path from the drop-down list, press the <Run> button, and then the camera will start moving horizontally as recorded.

To view the camera panning in full screen mode, please move the cursor onto the live view pane, right-click and left-click to select “fullscreen”. Then users can view the camera navigation in full screen.

To stop running an Auto Pan Path, simply move the cursor to the live view pane and move the camera in any direction.

3.5.4 Sequence Line Programming

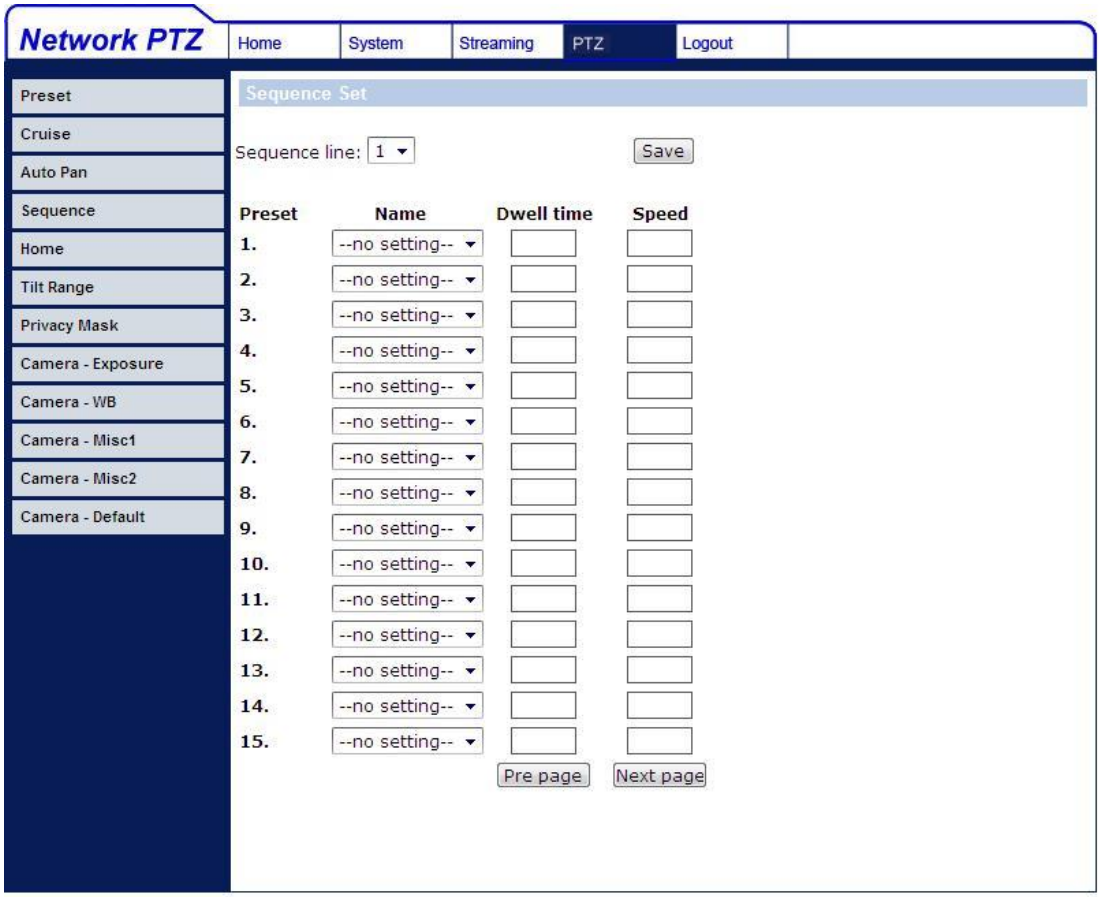


The Network Speed Dome Camera supports totally 8 Sequence Lines; each Sequence Line consists of up to 64 Preset Points. Please refer to the instructions below to program a Sequence Line.

NOTE: Before setting this function, users must pre-define at least two Preset Points.

Sequence Setting

Please click on the <Edit> button in <Sequence Setting> section to enter the Sequence setting menu.



- **Sequence Line**

  Please select the number of Sequence Line to be set from the drop-down list in the top of the Sequence setting menu.

- **Sequential Preset Points Setting**

  Please setup each Preset Point of the programmed Sequence Line in order, assigning a Preset Point from the <Name> list for the specified number of Preset Point (click on <Pre Page> or <Next Page> button to reach preset point 1 to 256) and entering both Dwell Time (0~255) and Speed (0~14) into the corresponding fields.

When finishing the sequential Preset Points setting, please click the <Save> button on the top of the Sequence setting menu.

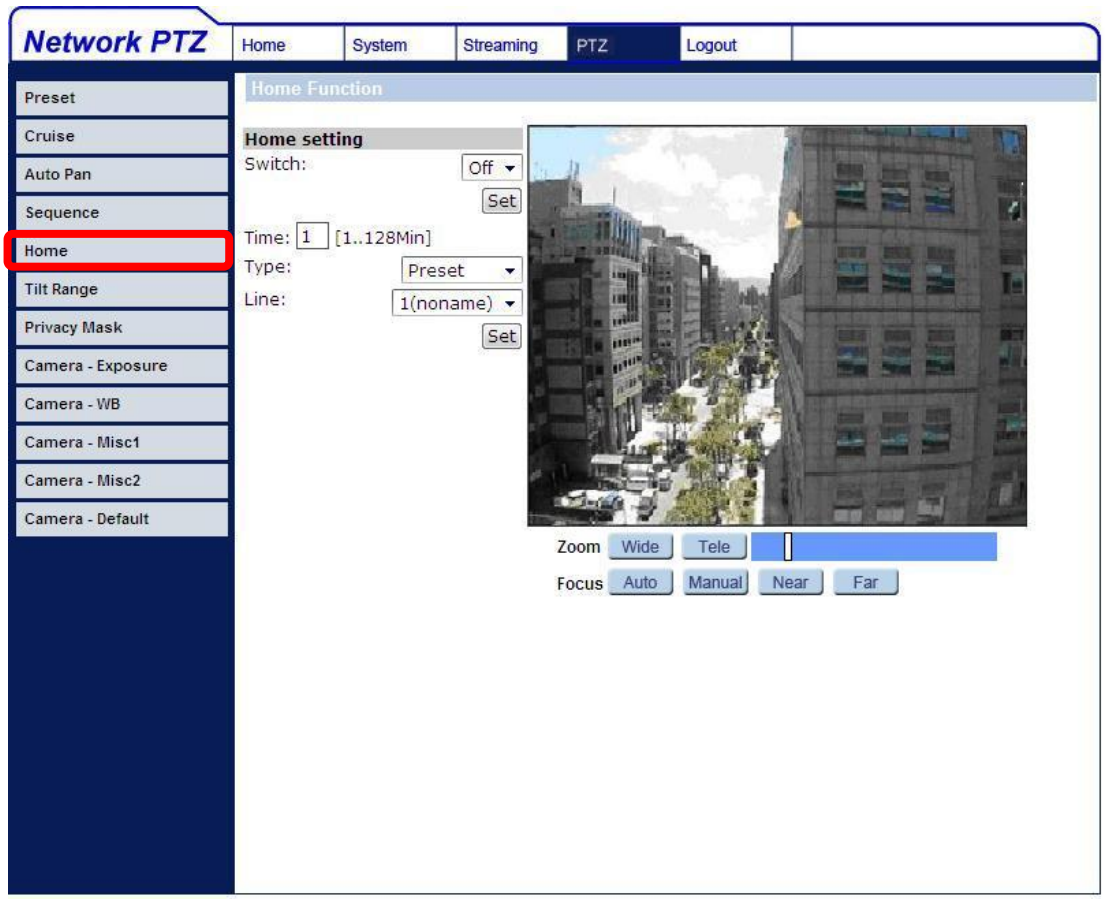
Sequence Run

Select the specified Sequence Line from the drop-down list, click on the <Go> button, and then the camera will start moving forward each scene sequentially as programmed.

To view the camera executing a Sequence Line in full screen mode, please move the cursor onto the live view pane, right-click and left-click to select “fullscreen”. Then users can view the camera navigation in full screen.

To stop running the Sequence Line, simply move the cursor to the live view pane and move the camera in any direction.

3.5.5 Home Function



Users are able to set an operation mode to ensure constant monitoring. If the network Speed Dome Camera idles for a period of time, the selected function will be activated automatically; this is the HOME function. The HOME function allows constant and accurate monitoring to avoid the Dome Camera idling or missing events.

Home Setting

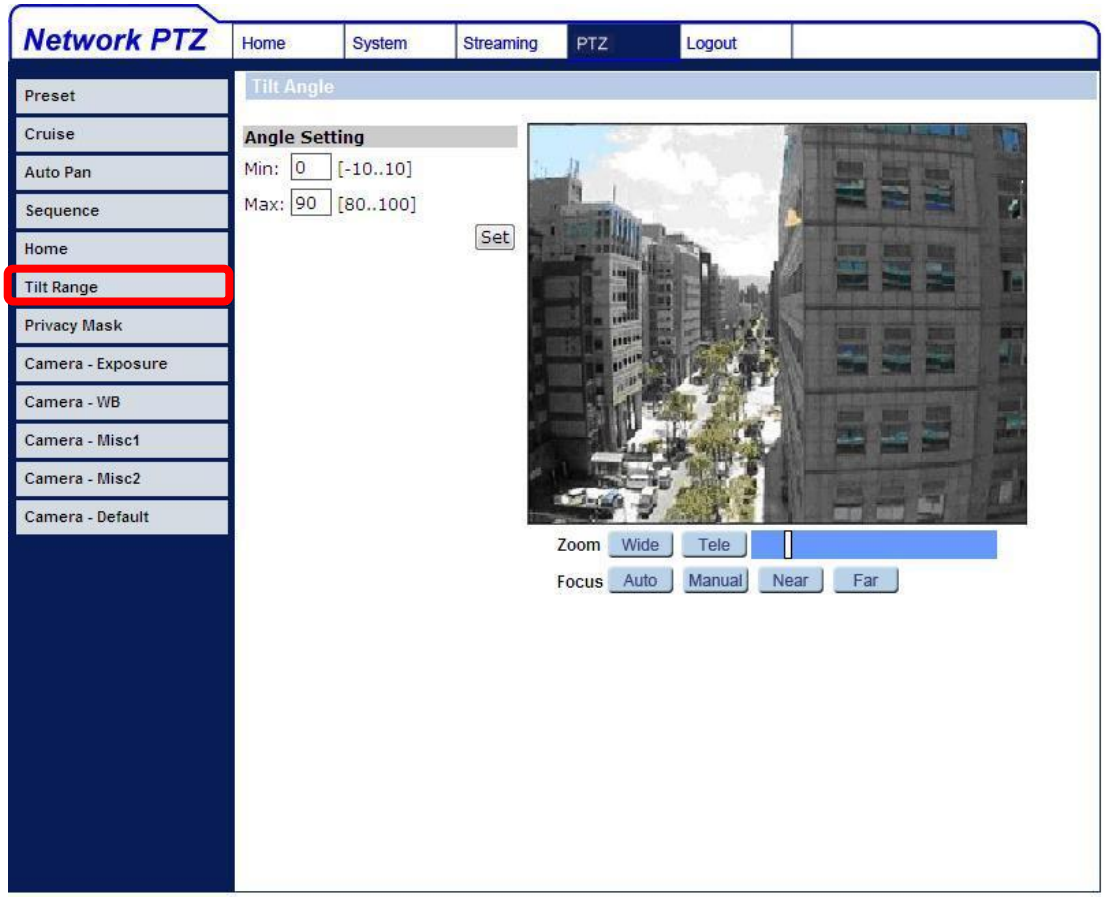
- **Activate/Disable Home Function**
  Select <On> or <Off> to activate or disable the Home function.
  Then click on the <Set> button to save the setting.

- **Time**
  The time here represents the duration of camera idle time previous to running a Preset Point/Cruise Line/Auto Pan Path/Sequence Line. When the Home function is activated, the Dome Camera will start to count down when it idles, and then execute the predefined action as time expires. The time period ranges from 1 to 128 minutes; please specify it in the field.

- **Action Type**

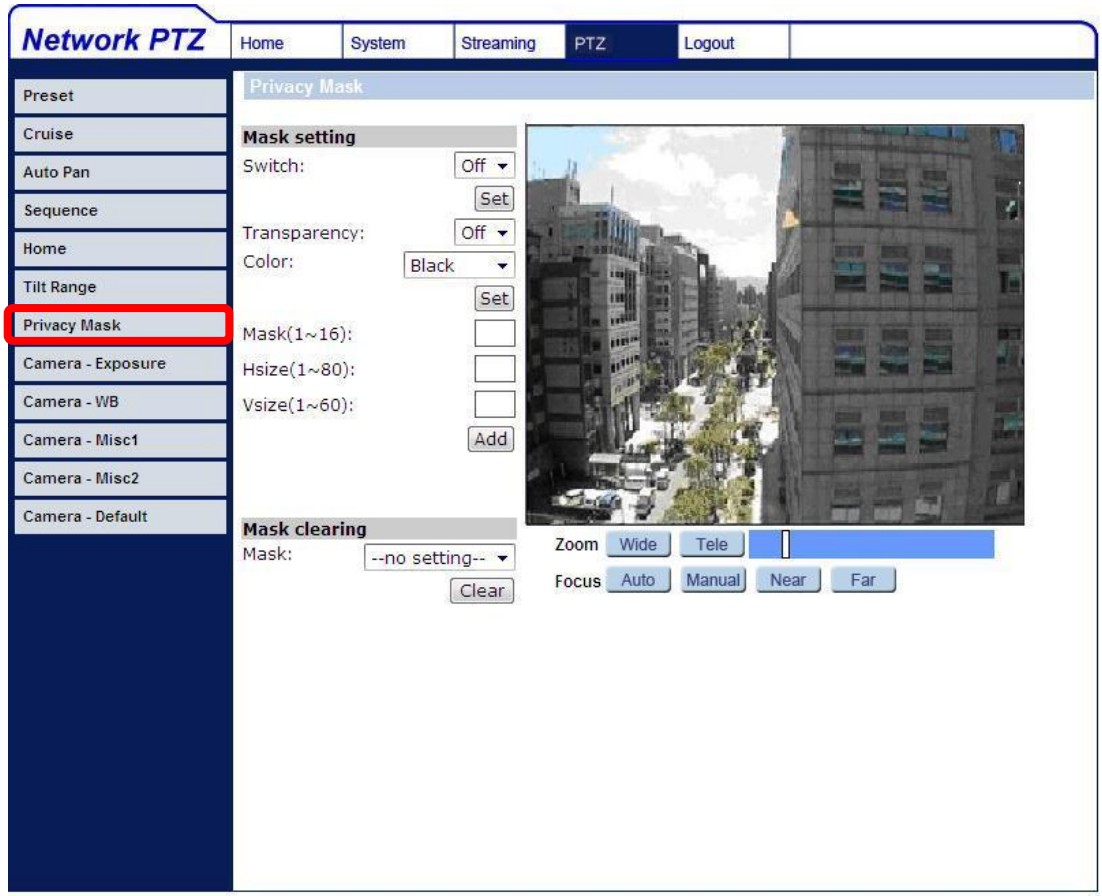
  Please select a Home action type (Preset Point/Cruise Line/Auto Pan Path/Sequence Line) and specify the number of Preset Point/Cruise Line/Auto Pan Path/Sequence Line from the drop-down “Type” and “Line” lists. Click on <Set> to save the Home settings.

3.5.6 Tilt Angle Settings



The network Speed Dome Camera's tilt angle is adjustable from minimum -10° to maximum 190°. Please enter the desired minimum and maximum tilt angle into the corresponding fields respectively. Press the "Set" button to save the tilt angle settings.

3.5.7 Privacy Mask Settings



The Privacy Mask function aims to avoid any intrusive monitoring. When setting a mask, it is suggested to set it at least *twice bigger* (height and width) than the masked object. The Dome Camera will assume the center of the selected view as a starting point. Therefore, please keep the target object/region nearly positioned in the center of the scene. Refer to the following descriptions for setting a privacy mask.

NOTE: The Image Flip function (refer to section 5.5.10 Camera—Misc 1) and the Image Inverse function (refer to section 5.5.11 Camera—Misc 2) will be disabled automatically while the Privacy Mask function is enabled.

Mask Setting

- **Activate/Disable Privacy Mask Function**
  The Privacy Mask function can be activated or disabled.
  Click on <Set> to save the setting.

- **Activate/Disable Transparency Mask**
  The Privacy Mask can be set as transparency if necessary.

- **Color Setting**
  Select a desired color from the <Color> drop-down list for the specified Privacy Mask.

  Click on <Set> to save the Privacy Mask's color properties.

- **Mask Number**
  Specify the number of the programmed Privacy Mask in the corresponding field. The numbers of Privacy Masks vary with camera models.

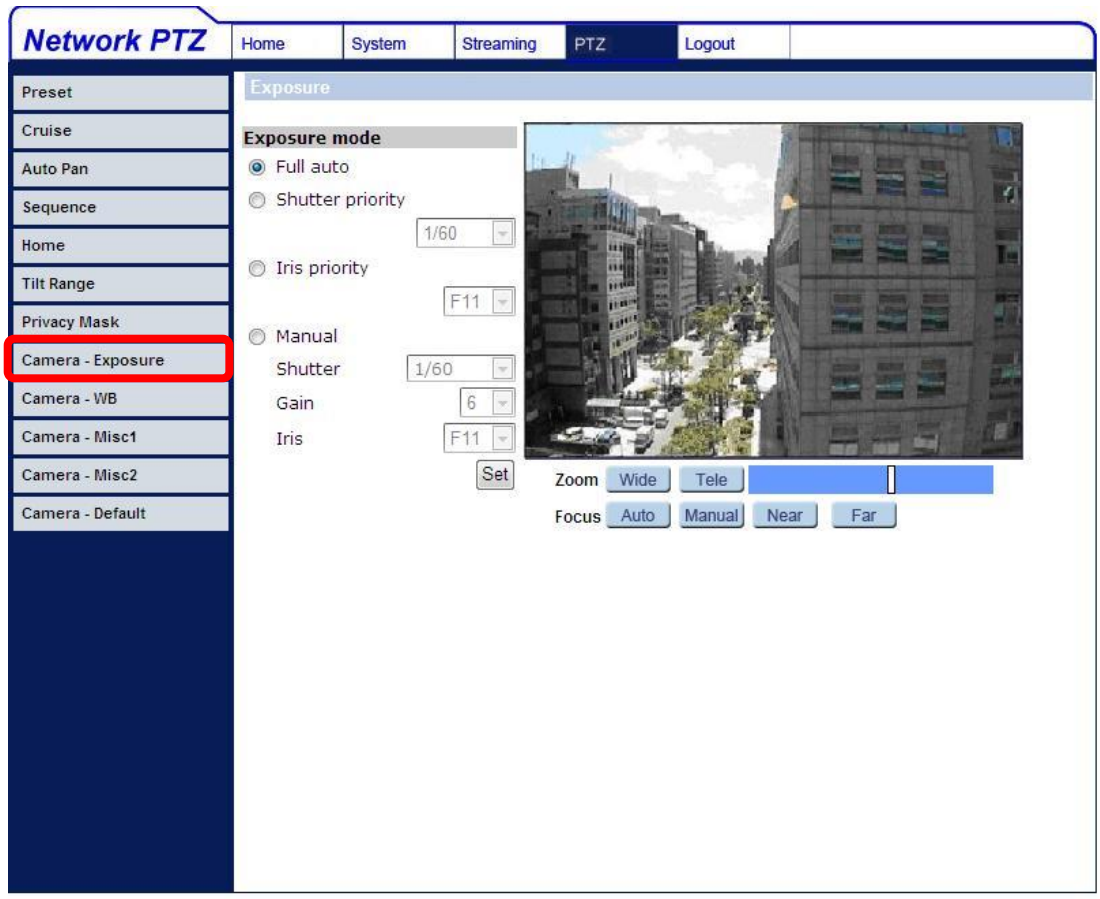
- **Mask Size**
  The size of a Privacy Mask can be customized through specifying its horizontal and vertical size. The value of <Horizontal Size> ranges from 1 ~80, while that of <Vertical Size> ranges from 1 ~60.

  After finishing the setup of a Privacy Mask, click on the button <Add> to save the programmed Privacy Mask.

Mask Clearing

In this section, users can delete an existing Privacy Mask. Please select the Privacy Mask to be removed from the drop-down list, and click on the button <Clear>. Then the selected Privacy Mask will readily disappear.

3.5.8 Camera— Exposure



In the Exposure Mode setting page, users can select either the <Full Auto> mode or adjust the parameter of the Shutter/Iris/Bright Priority mode for optimized video output in accordance with the operating environment.

Full Auto Mode

In this mode, the camera's Shutter Speed, IRIS and AGC (Auto Gain Control) control circuits work together automatically to get consistent video output level.

Shutter Priority Mode

In this mode, it is shutter speed that takes main control of exposure. The range of shutter speed is from 1/10000 to 1/60. Users could select suitable shutter speed according to the environmental illuminance.

Gain Priority Mode

In this mode, it is gain that has premier priority in control of exposure. The value of iris is adjustable from F1 to F15.

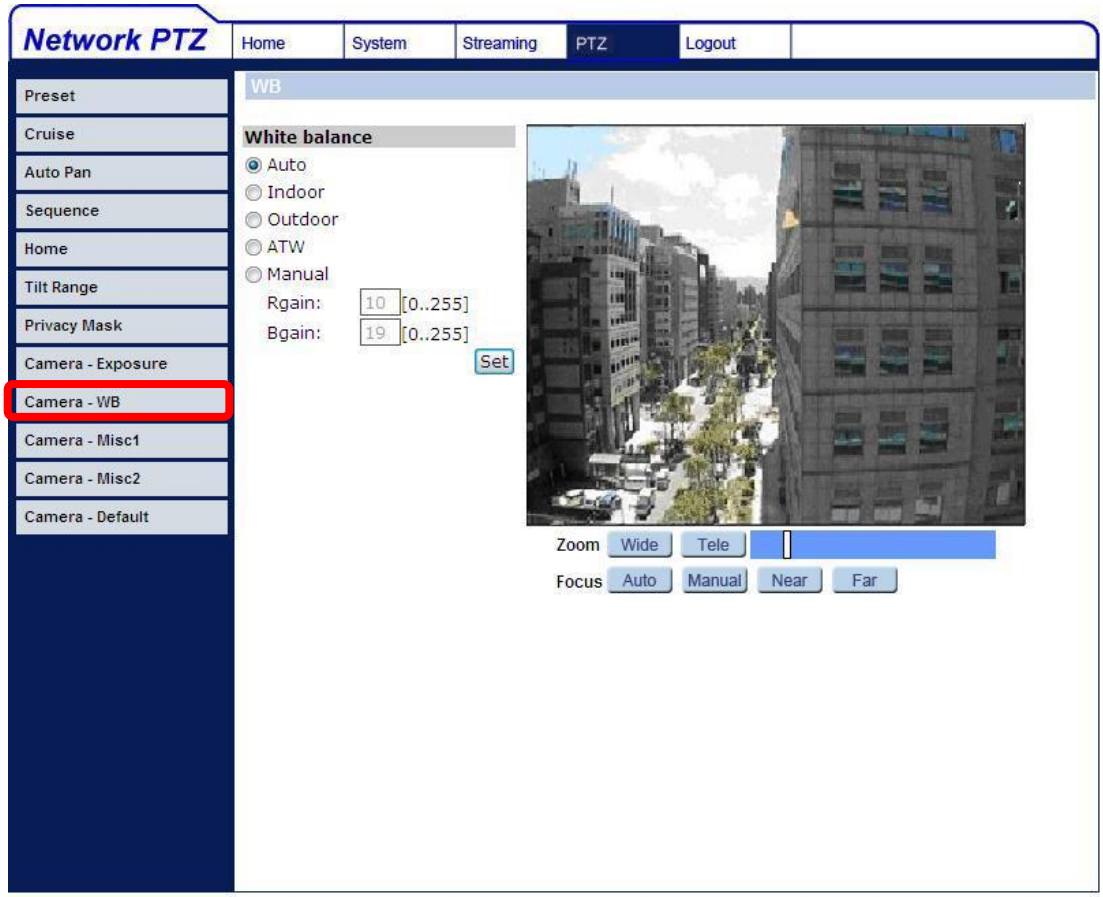
Iris Priority Mode

In this mode, it is iris that has premier priority in control of exposure. The value of iris is adjustable from F1.6 to F22.

Manual Mode

In this mode, users can change the Shutter speed (1/10000 to 1), Gain (1 to 15), and Iris (F1.6 to F22) manually.

3.5.9 Camera—WB Mode



A camera needs to find reference color temperature, which is a way of measuring the quality of a light source, for calculating all the other colors. The unit for measuring this ratio is in degree Kelvin (K). Users can select one of the White Balance Control modes according to the operating environment. The following table shows the color temperature of some light sources for reference.

Light Sources	Color Temperature in K
Cloudy Sky	6,000 to 8,000
Noon Sun and Clear Sky	6,500
Household Lighting	2,500 to 3,000
75-watt Bulb	2,820
Candle Flame	1,200 to 1,500

Auto Mode

The Auto Balance White mode is suitable for environment with light source having color temperature in the range roughly from 2700 ~ 7500K.

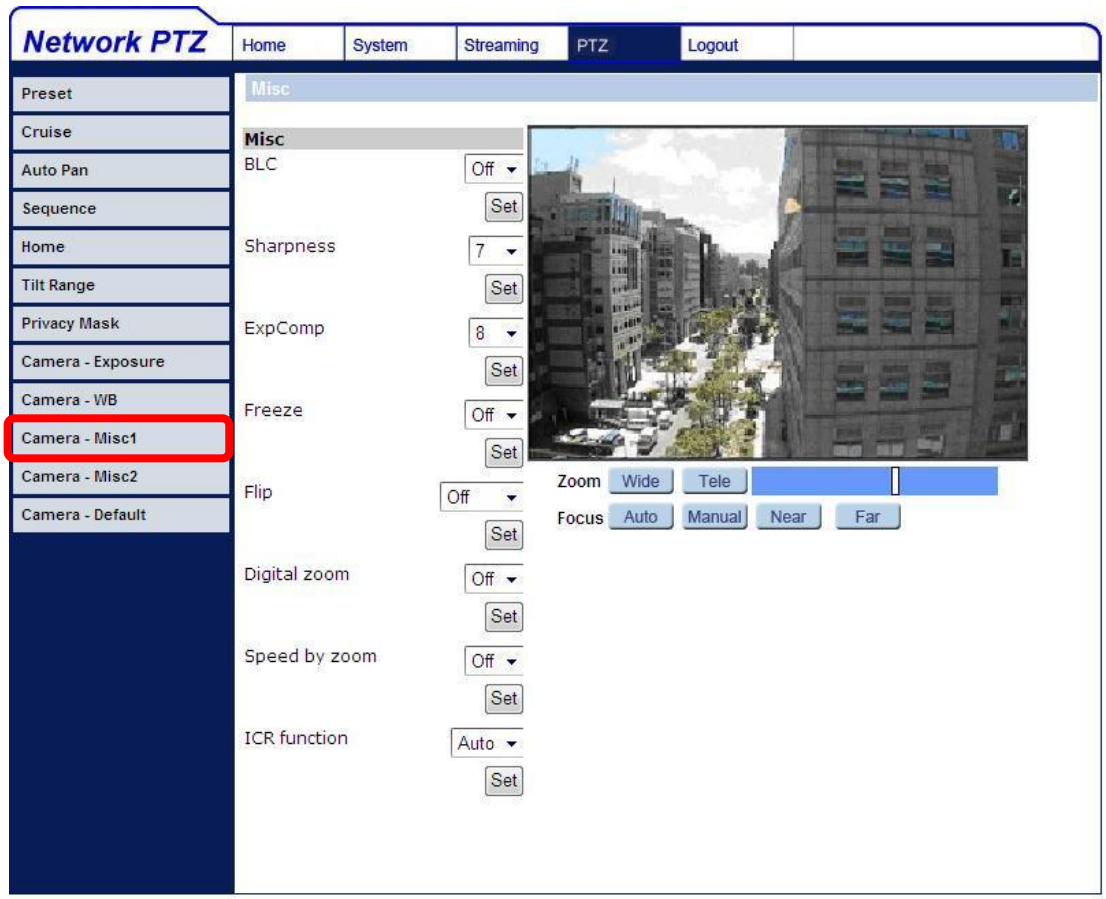
ATW Mode (Auto Tracing White Balance)

The Dome Camera takes out the signals in a screen in the range from 2500 K to 10000 K.

Manual Mode

In this mode, users can change the White Balance value manually via specifying R gain and B gain; the range of R/B gain is from 0 to 255.

3.5.10 Camera—Misc 1 (Miscellaneous Setups Menu 1)



In the Camera—Misc (Miscellaneous) Setups Menu 1, users can set various camera parameters including Backlight Compensation (BLC), Sharpness, Exposures Compensation (ExpComp), Image Freeze, Image Flip, Digital Zoom, Speed by Zoom and ICR function. Each setting is specified as follows:

BLC

Users can choose to activate or disable the BLC function. Click on <Set> to save the setting.

Sharpness

Increasing the sharpness level can make the image looked sharper; especially enhancing the object's edge. The Sharpness value is adjustable from 1 to 15. Click on <Set> to save the setting.

ExpComp

Users can define the value of Exposure Compensation; the value ranges from 1 to 15. Click on <Set> to save the setting.

Freeze

Freeze function allows to hold the image while the camera is moving between preset positions such as in Preset mode and Sequence mode. Users can choose to activate or disable the function. Click on <Set> to save the setting.

Flip

Users can track an object continuously when it passes through under the Dome Camera with setting Flip to Mechanical (M.E.) mode or Digital Flip (Image) mode.

NOTE: Flip setting is manual-controlled only. If a Preset Position or a point for other function (ex. Sequence) is set in the position that can only be reached through FLIP motion, when Flip function is turned off, the position cannot be reached anymore.

NOTE: To make the Dome Camera tilt between a specific range, such as -10 to +100° or -10° ~ +190°, please go to the <Tilt Range> setting page to set the tilt angle range. Otherwise, the Dome Camera will tilt 90° as the default setting.

- **M.E. Mode**

  M.E. is a standard mechanical operation. As the Dome Camera tilts to the maximum angle, it will pan 180°, and then continue tilting to keep tracking objects.

- **Image Mode**

  IMAGE represents digital IMAGE FLIP, which enables users to keep tracking objects seamlessly; under the mode, almost no delay occurs in comparing with that under the M.E. mode.

  NOTE: The Privacy Mask function will be automatically disabled if the Image Flip function is enabled.

Digital Zoom

The network Speed Dome Camera can supports up to 12× Digital Zoom. Click on <Set> to save the setting.

ICR Function

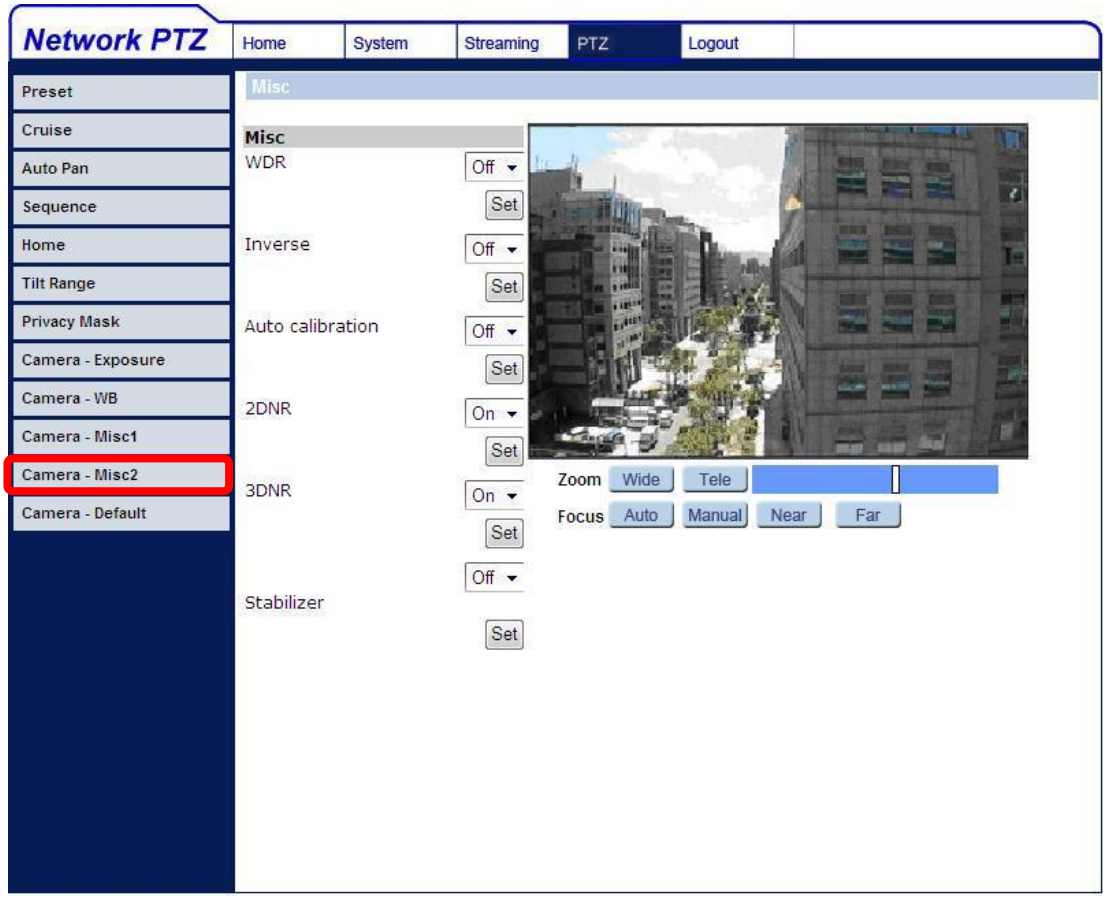
With the IR cut filter, the camera can still catch clear image at night time or in low light conditions.

- **Auto**
  In the Auto mode, the internal circuit will automatically decide the occasion to remove the IR cut filter according to the image brightness level.

- **On**
  Select the item to remove the IR cut filter.

- **Off**
  Select the item to disable IR function.

3.5.11 Camera—Misc 2 (Miscellaneous Setups Menu 2)



In the Camera—Misc (Miscellaneous) Setups Menu 2, users can setup various functions such as Wide Dynamic Range (WDR), Image Inverse, Auto Calibration, 2D/3D Noise Reduction (2DNR/3DNR) and Image Stabilizer.

WDR

The WDR function is especially effective in environment with extreme contrast. Click on <Set> to save the setting.

Inverse

When the Image Inverse function is activated, the image will be inversed vertically and horizontally. Click the button <Set> to save the setting.

Auto Calibration

With the Auto Calibration function, the network Speed Dome Camera calibrates when the deviation of dome pivot is detected. Click the button <Set> to save the setting.

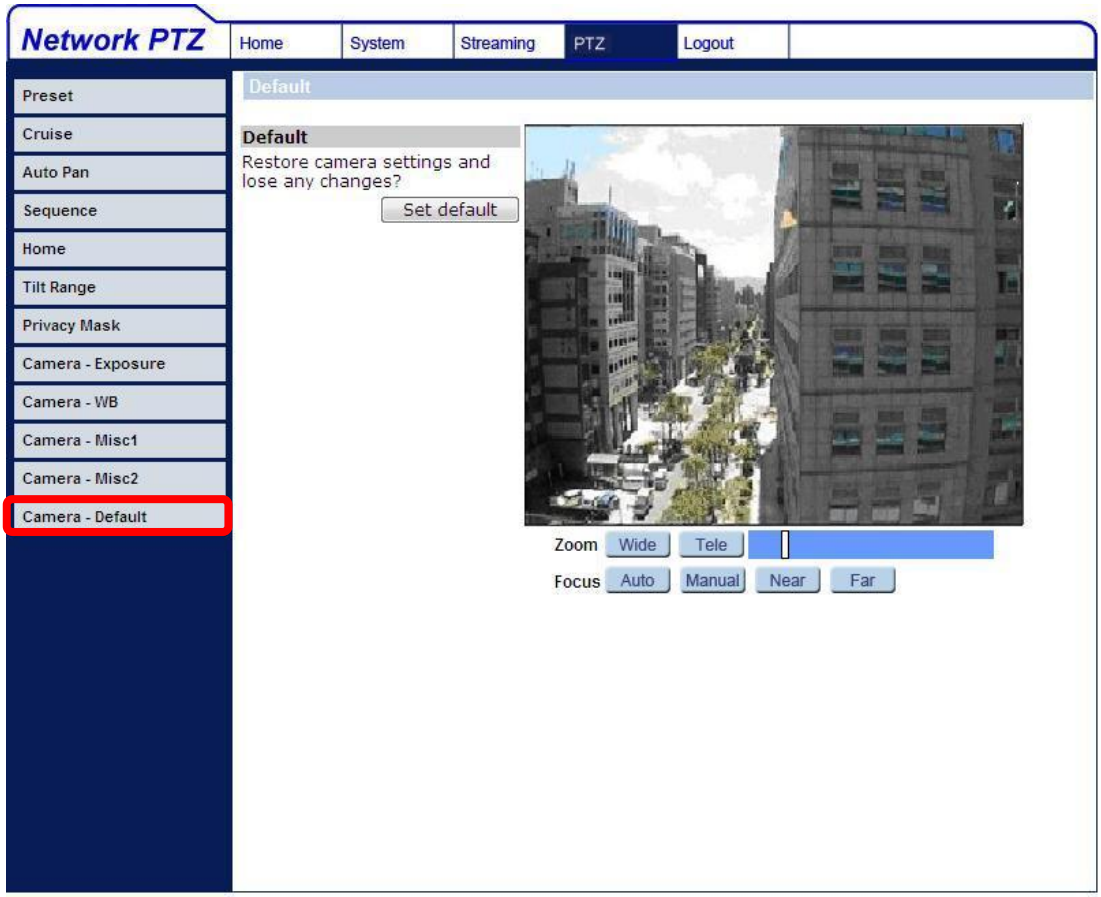
2D/ 3DNR

With the 2D/3D Noise Reduction function, the processor analyzes pixel by pixel and frame by frame to eliminate environmental noise signal so that the highest quality image can be produced even in low light conditions. In comparison with 2DNR, 3DNR generates better de-noising effects. Click on <Set> to save the setting.

STABILIZER

With the Image Stabilizer Function, the Speed Dome Camera can capture images that would otherwise be blurred due to the vibration. Users can select <ON> to turn on the Stabilizer. The default setting is <OFF>.

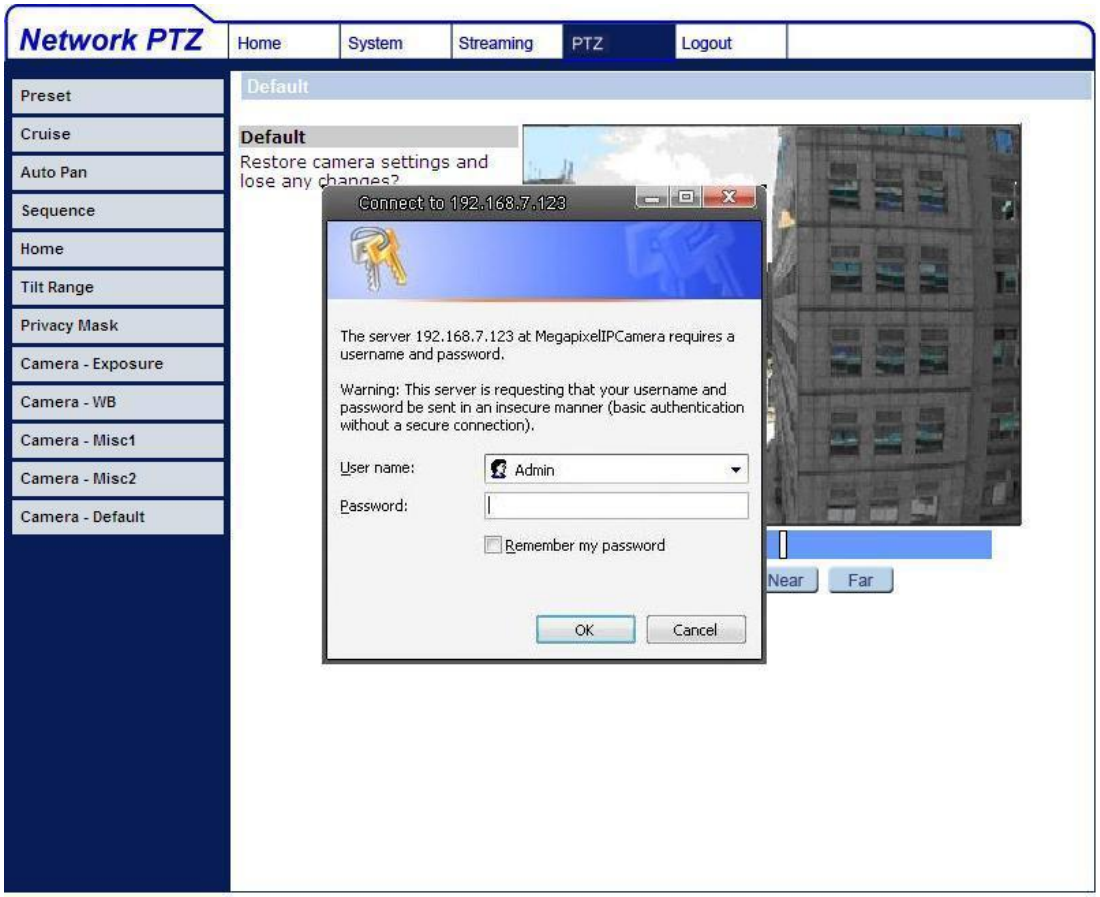
3.5.12 Default Settings



In the Camera Default page, users can set the camera back to factory default settings simply by clicking on the <Set Default> button.

3.6 Logout

Click on the tab <Logout> in the top of the page, and the login window will pop up. This enables login with another user name.



Appendix A: Technical Specifications

Type	**PLD-2012PTZ**
Art. No.	**200822**
Resolution standard	SD
System	True Day&Night
Sensor size	1/4"
Imager	CCD
Sensitivity (at 50% video signal)	0.1Lux (colour); 0.01Lux (B&W)
Horizontal resolution	650 TVL
Automatic gain control (AGC)	supplied
Automatic electronic shutter (ESC)	1/50 ~ 1/10,000sec.
Digital Noise Reduction (DNR)	yes, 2D & 3D
Low speed shutter	yes, ON/OFF switchable
White balance	automatic, indoor, outdoor, ATW, manual
Backlight compensation	BLC
Wide Dynamic Range (WDR)	Yes, D-WDR
IR cut filter	switchable
Resolution max.	720x576
Resolution	720x576 (4:3)
Image transmission rate max.	25 images/sec.
Privacy zones masking	16 zones masking, ON/OFF switchable
Activity detection	yes
Motion detector	10 zones
Analysis functions	activity detection
Sharpness correction	adjustment range: 0 ~ 15
Menu languages	German, English, French, Italian, Russian, Spanish
OSD function control	resolution, presets, motion detection, BLC, DNR, WDR, bit rate, day&night, password
External connections	alarm input, alarm output, audio input, audio output
Video outputs	composite (CVBS)
Audio support	yes
Audio	1/1 Line input and output
Alarm inputs	4
Alarm output	1
Alarm processing	SD-card recording, alarm out, FTP, E-Mail, PTZ action

Internal storage	microSD / SD HC 32GB
Compression standard	H.264, M-JPEG
Audio standards	G.711, G.726, ADPCM/AAC
Bandwidth	controllable bandwidth and frame rate
Stream types	H.264, MJPEG multiple
Network connection	RJ-45
Network interface	10Base-T, 10/100Base-TX
Web browser	MS Internet Explorer vers. 7.0 or higher, Safari (Java), Mozilla Firefox (Java), Google Chrome (Java)
Network protocols	TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, IPv4, IPv6, IEE 802.1
Lens type	auto focus zoom
Lens mount	-
Focal length	3.8mm – 45.6mm
Horizontal angle of view	45.6° - 4°
Aperture range	F1.6~F2.7
Digital zoom	12x
Iris control	DC
Focus control	automatic and manual
MOD (Minimum object distance)	1m
Illumination	no
Serial interfaces	no
Remote configuration	via web browser, remote software
Firmware update	via network interface
Operation protection	Password protected
Password protection	yes
e-PTZ support	no
Speed (manual control)	1-80°/sec.
Preset speed	up to 400°/sec.
Rotation range	continuous: 360°
Auto flip function	mechanical, digital, off
Proportional pan and tilt	continually decreases pan and tilt speeds in proportion to depth of zoom
Patterns	8 patterns
Presets	256 presets
Home position	included (with multiple park actions)

Tours	up to 8 user programmable guard tours
Supply voltage	24VAC
Power over Ethernet	no
Heater	yes
Power consumption	55W
Mounting	optional wall/flush mounting accessories (not supplied)
Temperature range (operation)	-30°C~+45°C
Vandalism resistant	yes
Housing	outdoor
Housing material	metal / plastic
Colour (housing)	RAL 9003
Colour (bubble)	clear
Protection rating	IP66
Management Software Support	www.eneo-security.com/software
SDK	upon request
ONVIF	Yes, ONVIF Test Tool Version 12.06 (Profile S)
Certificates	CE, IK10
Dimensions	see drawing (P.19)
Weight	2.1kg
Parts supplied	screw set, manual

Optional Accessories

The optional accessories currently available can be found on our Homepages:
www.videor.com and www.eneo-security.com

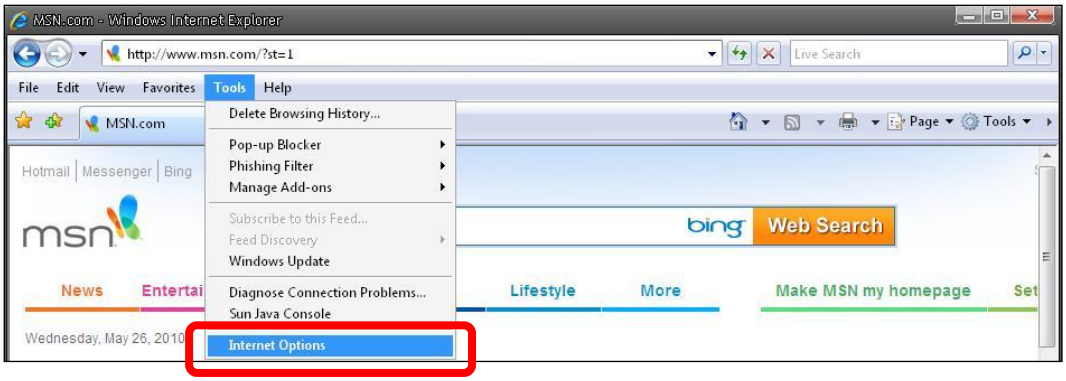
Appendix B: Internet Security Settings

If ActiveX control installation is blocked, please either set Internet security level to default or change ActiveX controls and plug-ins settings.

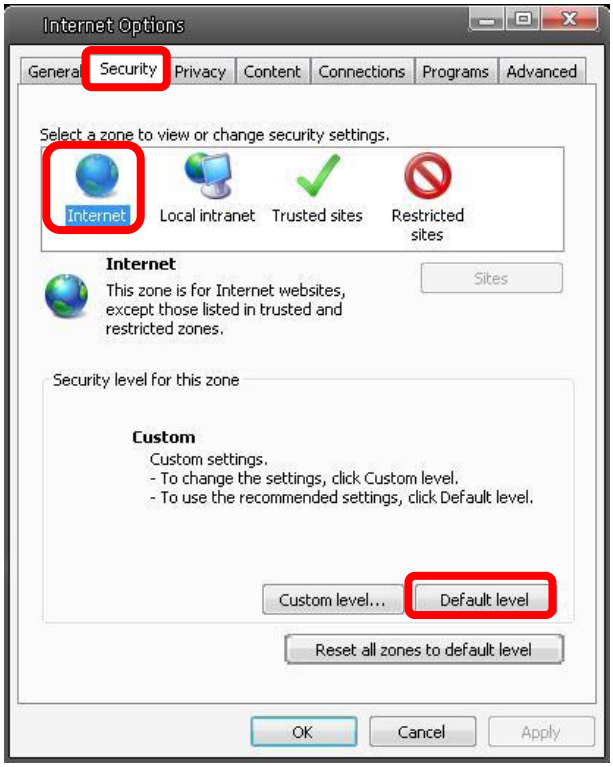
Internet Security Level: Default

Step 1: Start the Internet Explorer (IE).

Step 2: Select <Tools> from the main menu of the browser. Then Click on <Internet Options>.



Step 3: Click on the <Security> tab, and select <Internet>.

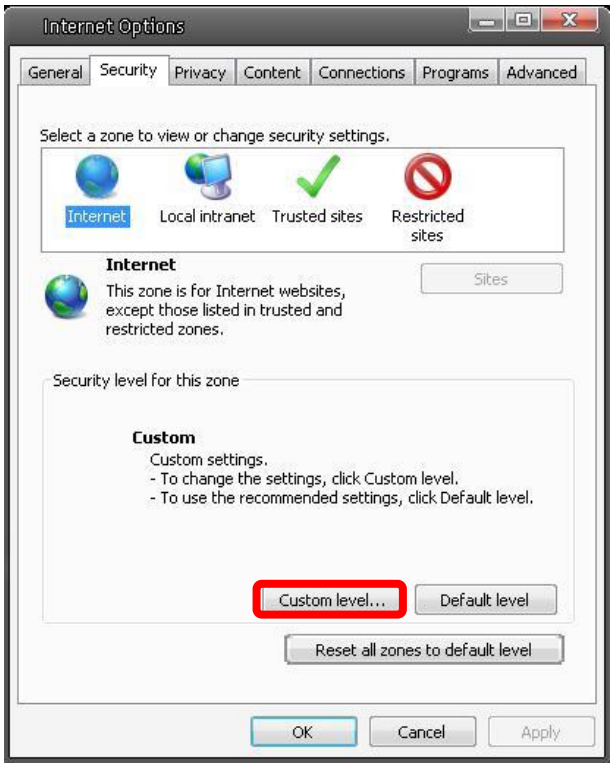


Step 4: Down the page, click on<Default Level> (refer to the figure above) and click on <OK> to confirm the setting. Close the browser window, and open a new one later when accessing the IP Camera.

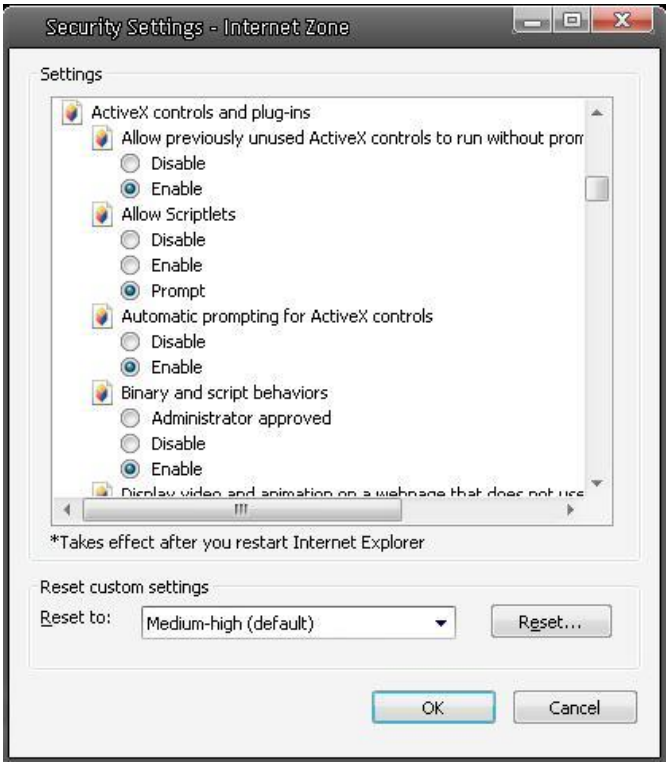
ActiveX Controls and Plug-ins Settings

Step 1~3: Refer to the previous section above.

Step 4: Down the page, click on <Custom Level> (refer to the figure below) to change ActiveX controls and plug-ins settings.



The Security Settings screen is displayed as below:



Step 5: Under <ActiveX controls and plug-ins>, set ALL items (as listed below) to <Enable> or <Prompt>.

ActiveX controls and plug-ins settings:

1. Allow previously unused ActiveX controls to run without prompt.
2. Allow Scriptlets.
3. Automatic prompting for ActiveX controls.
4. Binary and script behaviors.
5. Display video and animation on a webpage that does not use external media player
6. Download signed ActiveX controls
7. Download unsigned ActiveX controls
8. Initialize and script ActiveX controls not marked as safe for scripting
9. Run ActiveX controls and plug-ins
10. Script ActiveX controls marked safe for scripting

Step 6: Click on <OK> to accept the settings and close the <Security> screen.

Step 7: Click on <OK> to close the Internet Options screen.

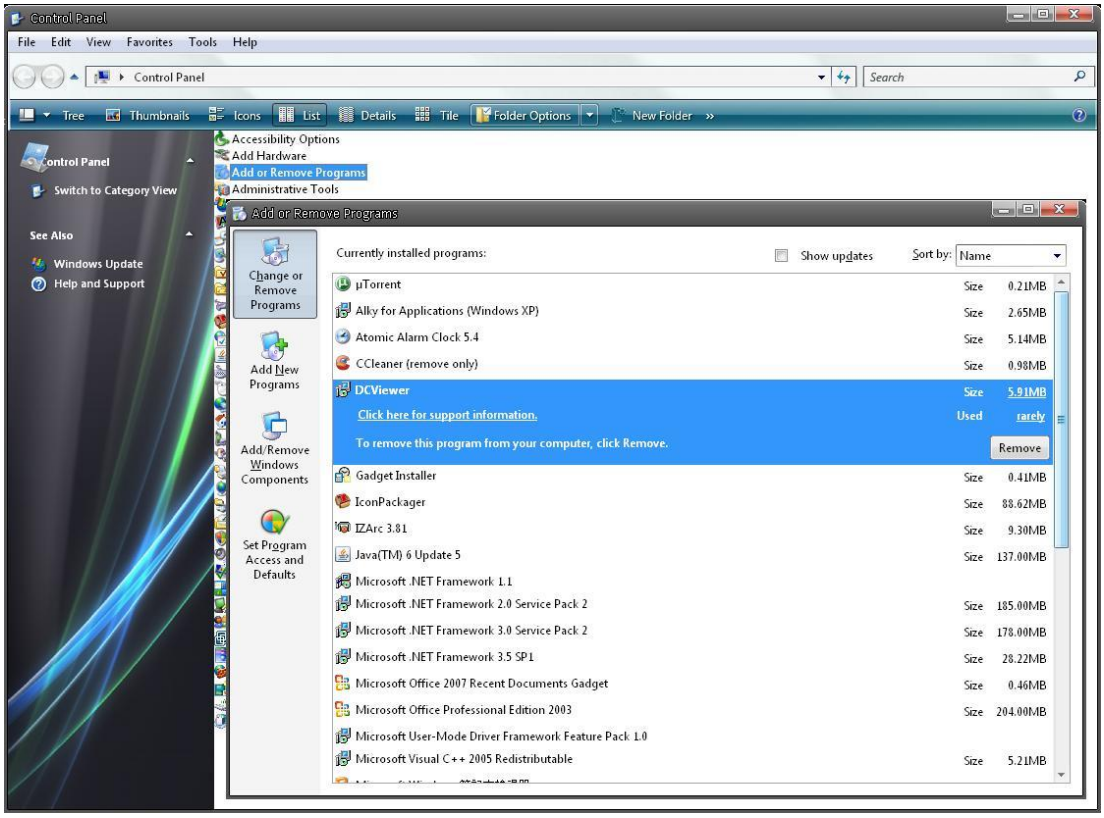
Step 8: Close the browser window, and restart a new one later for accessing Camera.

Appendix C: Deleting the Existing DC Viewer

For users who have installed the DC Viewer in the PC previously, please first delete the existing DC Viewer from the PC before accessing to this IP Camera.

Deleting the DC Viewer

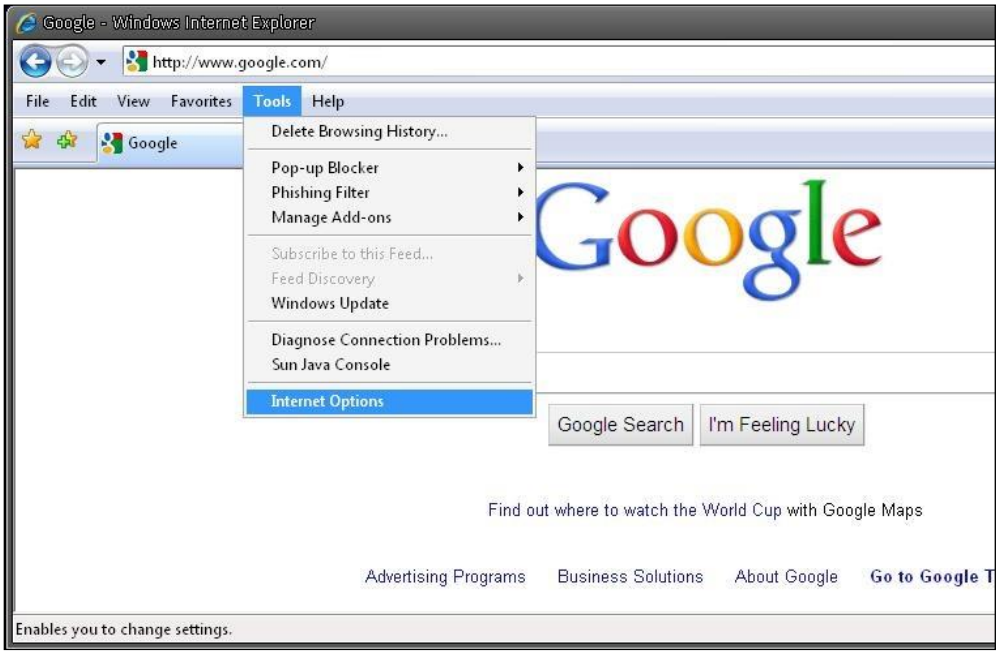
Enter “Control Panel”, and then double click on <Add or Remove Programs>. In the “Currently installed programs” list, s/elect “DCViewer” and click on the button <Remove> to uninstall the existing DC Viewer as shown in the figure below.


Control Panel
File Edit View Favorites Tools Help
Control Panel
Search
Tree Thumbnails Icons List Details Tile Folder Options New Folder
Accessibility Options
Add Hardware
Add or Remove Programs
Administrative Tools
Control Panel
Switch to Category View
See Also
Windows Update
Help and Support
Add or Remove Programs
Change or Remove Programs
Add New Programs
Add/Remove Windows Components
Set Program Access and Defaults
Currently installed programs:
Show updates
Sort by: Name
µTorrent Size 0.21MB
Alky for Applications (Windows XP) Size 2.65MB
Atomic Alarm Clock 5.4 Size 5.14MB
CCleaner (remove only) Size 0.98MB
DCViewer Size 5.91MB
Click here for support information. Used rarely
To remove this program from your computer, click Remove. Remove
Gadget Installer Size 0.41MB
IconPackager Size 88.62MB
IZArc 3.81 Size 9.30MB
Java(TM) 6 Update 5 Size 137.00MB
Microsoft .NET Framework 1.1
Microsoft .NET Framework 2.0 Service Pack 2 Size 185.00MB
Microsoft .NET Framework 3.0 Service Pack 2 Size 178.00MB
Microsoft .NET Framework 3.5 SP1 Size 28.22MB
Microsoft Office 2007 Recent Documents Gadget Size 0.46MB
Microsoft Office Professional Edition 2003 Size 204.00MB
Microsoft User-Mode Driver Framework Feature Pack 1.0
Microsoft Visual C++ 2005 Redistributable Size 5.21MB

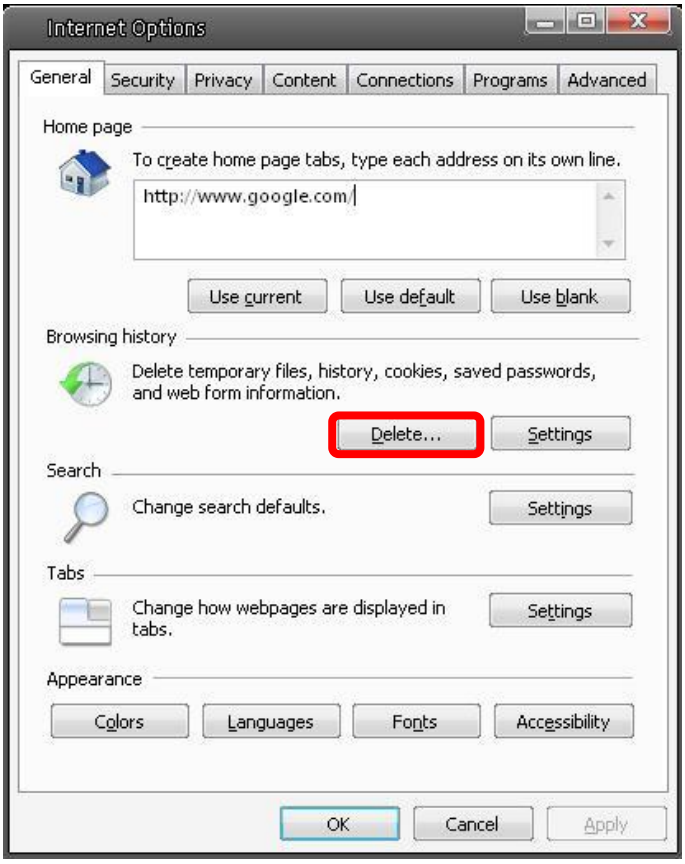
Deleting Temporary Internet Files

To improve browser performance, it is suggested to clean up the all the files in the Temporary Internet Files. The procedure is as follows:

Step 1: Click on the <Tools> tab and select the option <Internet Options>.

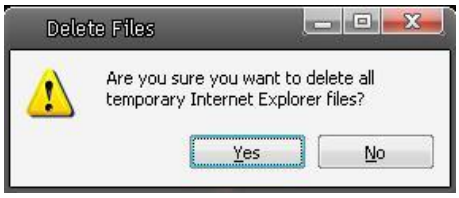


Step 2: Click on <Delete>, then tap the <Delete Files> in the <Temporary Internet files> section.



Delete Browsing History
Temporary Internet Files
Copies of webpages, images, and media that are saved for faster viewing.
Delete files...
Cookies
Files stored on your computer by websites to save preferences such as login information.
Delete cookies...
History
List of websites you have visited.
Delete history...
Form data
Saved information that you have typed into forms.
Delete forms...
Passwords
Passwords that are automatically filled in when you log on to a website you've previously visited.
Delete passwords...
About deleting browsing history
Delete all...
Close

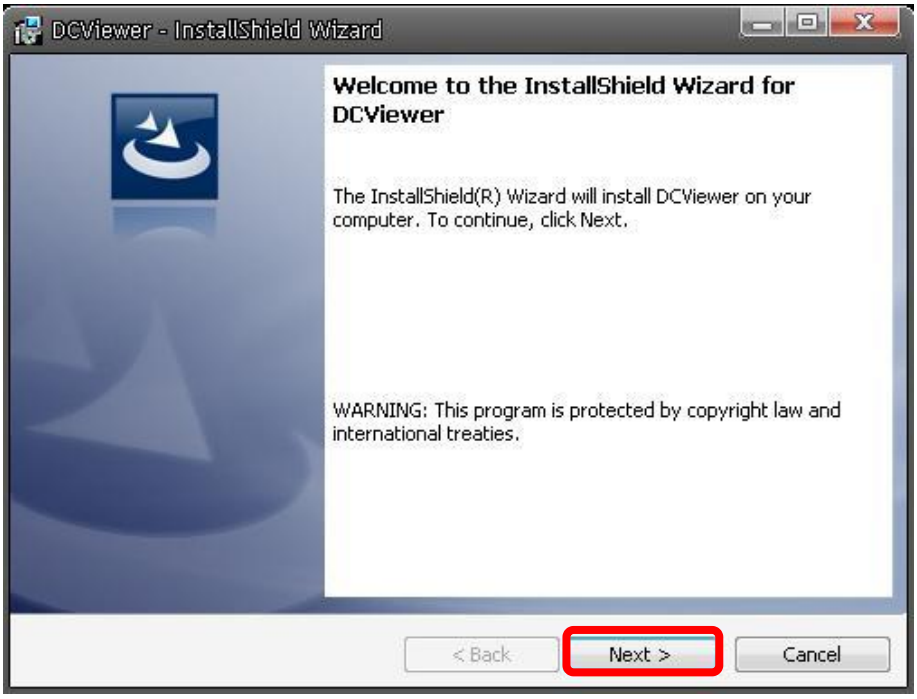
The popup window for confirmation will come out as shown below. Click on <Yes> to start deleting the files.



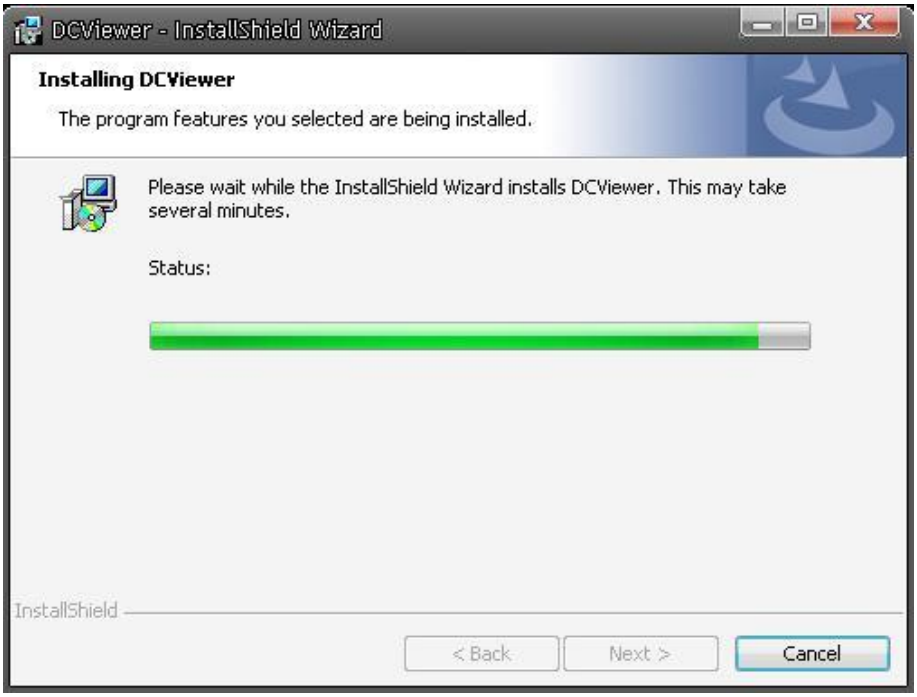
Appendix D: DC Viewer Download Procedure

The procedure of DC Viewer software download is specified as follows.

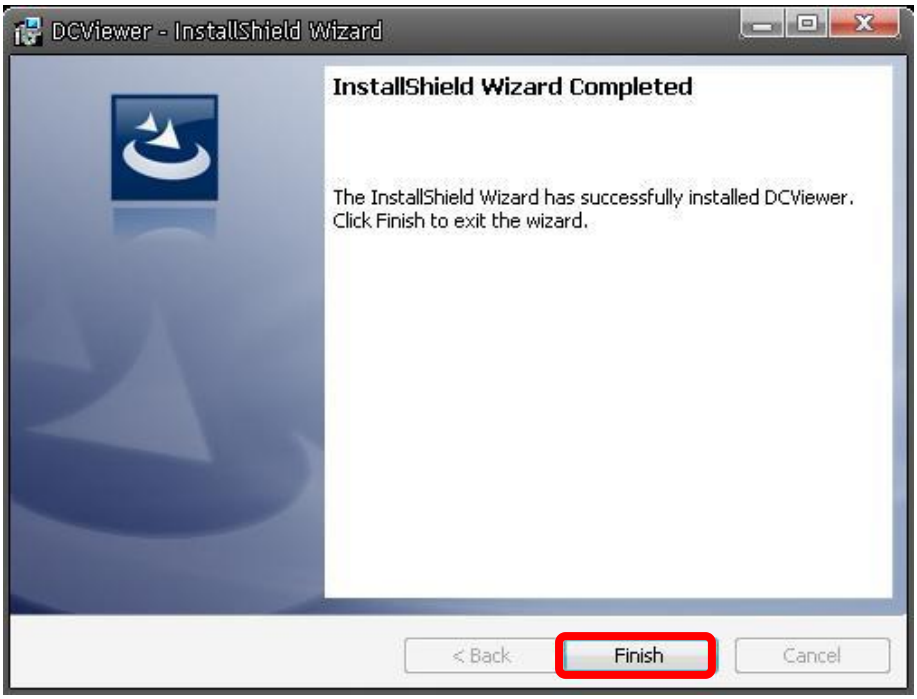
Step 1: In the DC Viewer installation page, click on <Next> for starting installing.


DCViewer - InstallShield Wizard
Welcome to the InstallShield Wizard for DCViewer
The InstallShield(R) Wizard will install DCViewer on your computer. To continue, click Next.
WARNING: This program is protected by copyright law and international treaties.
< Back
Next >
Cancel

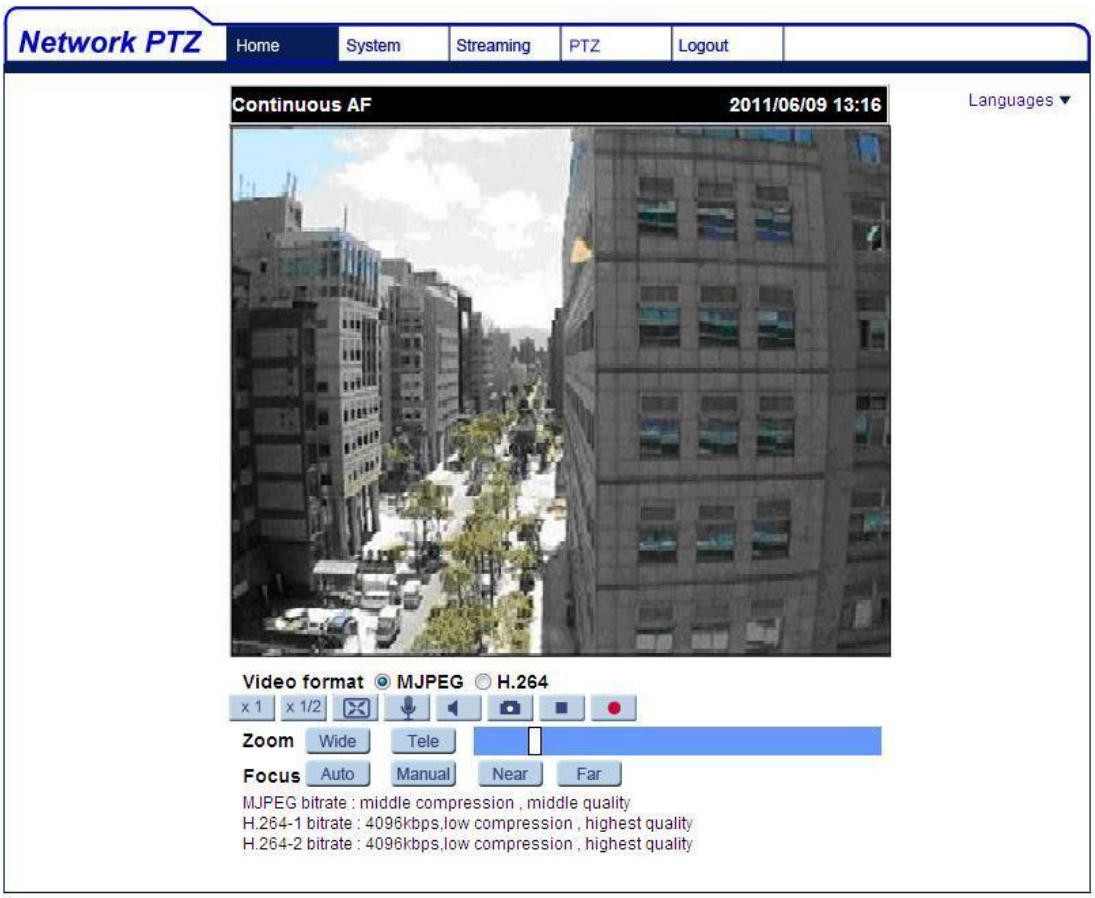
Step 2: Setup starts. Please wait for a while until the loading bar runs out.


DCViewer - InstallShield Wizard
Installing DCViewer
The program features you selected are being installed.
Please wait while the InstallShield Wizard installs DCViewer. This may take several minutes.
Status:
InstallShield
< Back
Next >
Cancel

Step 3: Click on <Finish> to close the DC Viewer installation page.


DCViewer - InstallShield Wizard
InstallShield Wizard Completed
The InstallShield Wizard has successfully installed DCViewer. Click Finish to exit the wizard.
< Back
Finish
Cancel

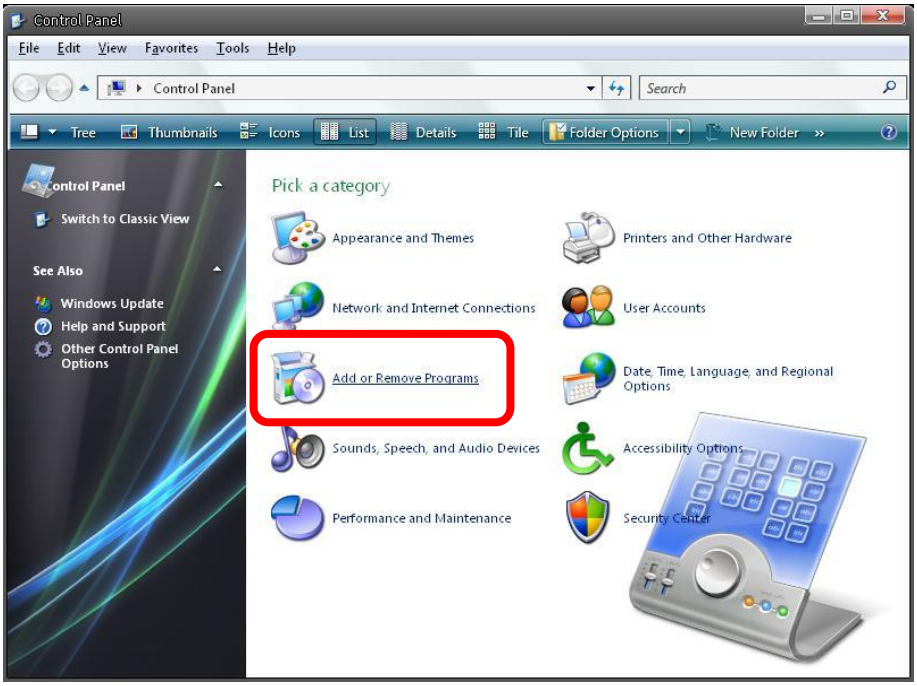
Then, the network Speed Dome Camera's Home page will display as follows:



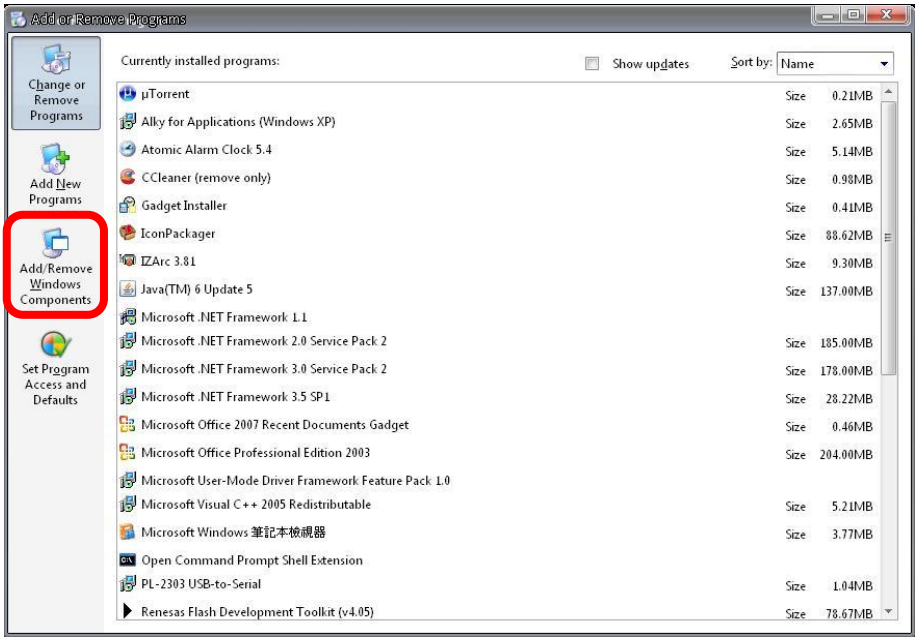
Appendix E: Install UPnP Components

Please follow the instructions below to install UPnP components.

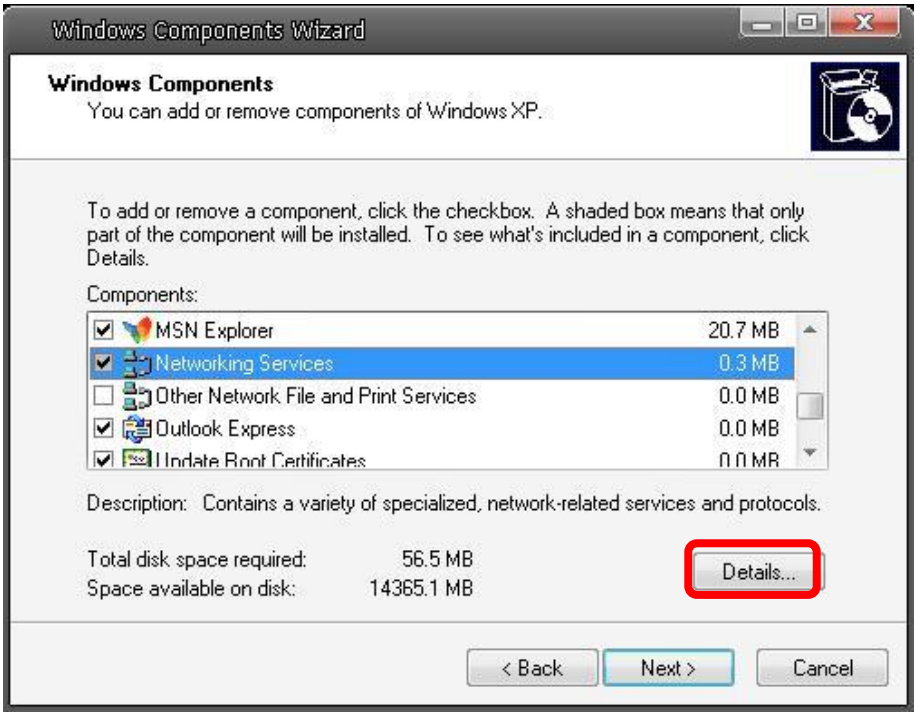
Step 1: Go to “Start”, click on “Control Panel”, and then double click on <Add or Remove Programs>.



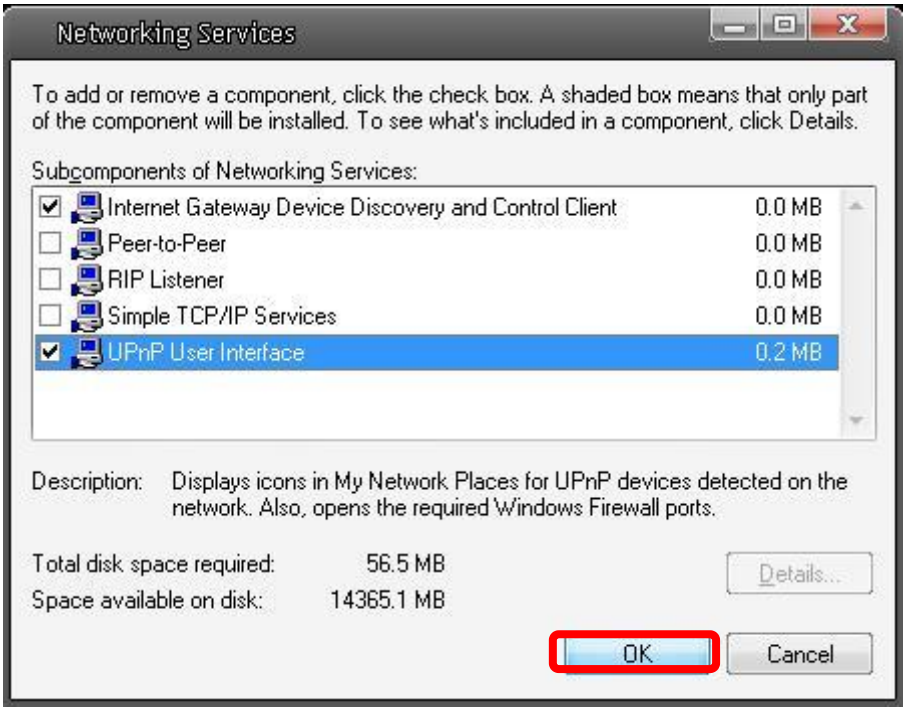
Step 2: Click on <Add/Remove Windows Components> in the Add or Remove Programs page.


Add or Remove Programs
Change or Remove Programs
Add New Programs
Add/Remove Windows Components
Set Program Access and Defaults
Currently installed programs:
Show updates
Sort by: Name
µTorrent Size 0.21MB
Alky for Applications (Windows XP) Size 2.65MB
Atomic Alarm Clock 5.4 Size 5.14MB
CCleaner (remove only) Size 0.98MB
Gadget Installer Size 0.41MB
IconPackager Size 88.62MB
IZArc 3.81 Size 9.30MB
Java(TM) 6 Update 5 Size 137.00MB
Microsoft .NET Framework 1.1
Microsoft .NET Framework 2.0 Service Pack 2 Size 185.00MB
Microsoft .NET Framework 3.0 Service Pack 2 Size 178.00MB
Microsoft .NET Framework 3.5 SP1 Size 28.22MB
Microsoft Office 2007 Recent Documents Gadget Size 0.46MB
Microsoft Office Professional Edition 2003 Size 204.00MB
Microsoft User-Mode Driver Framework Feature Pack 1.0
Microsoft Visual C++ 2005 Redistributable Size 5.21MB
Microsoft Windows 筆記本檢視器 Size 3.77MB
Open Command Prompt Shell Extension
PL-2303 USB-to-Serial Size 1.04MB
Renesas Flash Development Toolkit (v4.05) Size 78.67MB

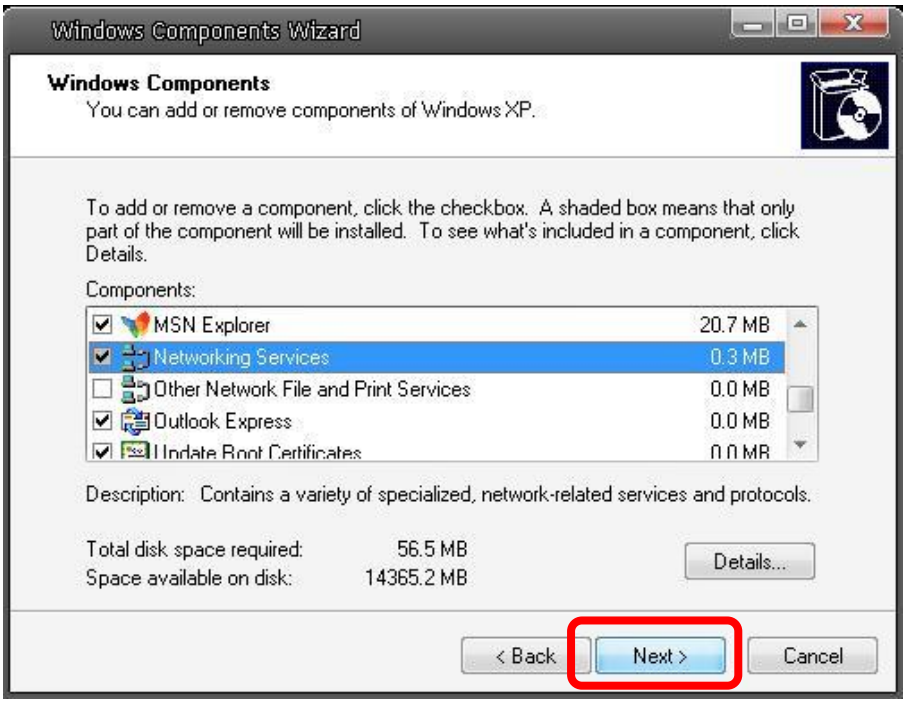
Step 3: Select <Networking Services> from the Components list in the Windows Components Wizard window, and then click on <Details>.


Windows Components Wizard
Windows Components
You can add or remove components of Windows XP.
To add or remove a component, click the checkbox. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Components:
MSN Explorer 20.7 MB
Networking Services 0.3 MB
Other Network File and Print Services 0.0 MB
Outlook Express 0.0 MB
Update Root Certificates 0.0 MB
Description: Contains a variety of specialized, network-related services and protocols.
Total disk space required: 56.5 MB
Space available on disk: 14365.1 MB
Details...
< Back
Next >
Cancel

Step 4: Select <UPnP User Interface> in the Networking Services' subcomponents list and then click on <OK>.


Networking Services
To add or remove a component, click the check box. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Subcomponents of Networking Services:
Internet Gateway Device Discovery and Control Client 0.0 MB
Peer-to-Peer 0.0 MB
RIP Listener 0.0 MB
Simple TCP/IP Services 0.0 MB
UPnP User Interface 0.2 MB
Description: Displays icons in My Network Places for UPnP devices detected on the network. Also, opens the required Windows Firewall ports.
Total disk space required: 56.5 MB
Space available on disk: 14365.1 MB
Details...
OK
Cancel

Step 5: Click on <Next> in the Windows Components Wizard page.


Windows Components Wizard
Windows Components
You can add or remove components of Windows XP.
To add or remove a component, click the checkbox. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Components:
MSN Explorer 20.7 MB
Networking Services 0.3 MB
Other Network File and Print Services 0.0 MB
Outlook Express 0.0 MB
Update Root Certificates 0.0 MB
Description: Contains a variety of specialized, network-related services and protocols.
Total disk space required: 56.5 MB
Space available on disk: 14365.2 MB
Details...
< Back
Next >
Cancel

Step 6: Click on <Finish> to complete installation.

Windows Components Wizard
Completing the Windows Components Wizard
You have successfully completed the Windows Components Wizard.
To close this wizard, click Finish.
< Back
Finish

Appendix F: SD Card Installation Guide

Summary

This document contains step-by-step SD card installation instruction for network High Speed Dome Camera series. In order to insert SD card into the SD card slot on IP board properly, the housing of high speed dome camera must be disassembled. Please follow the steps below for proper disassembled.

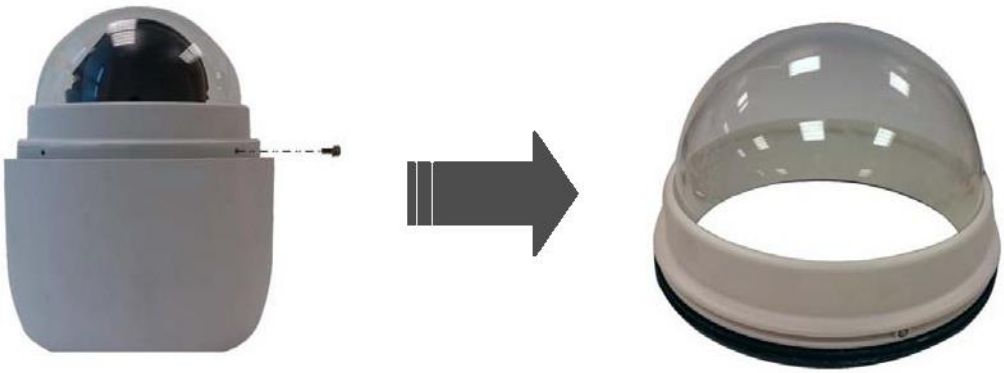
Product Information

This instruction is suitable for network High Speed Dome Cameras PLD-2012PTZ (art. no. 200822) and PLD-2036PTZ (art. no. 200823) with IP card inside.

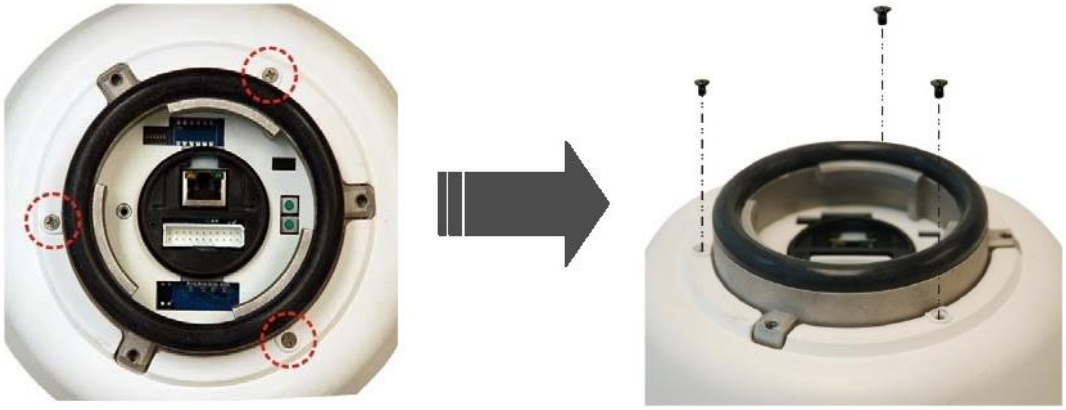
Tools

Disassemble Procedure

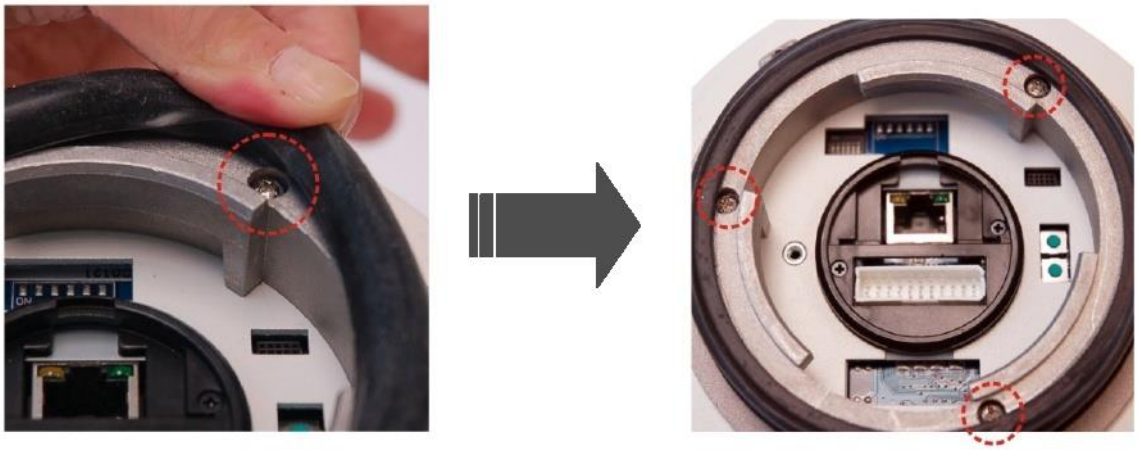
1. Cover: Loosen the screw anticlockwise on the cover and remove it.



2. Sunshield: Loosen three screws anticlockwise to remove the sunshield.

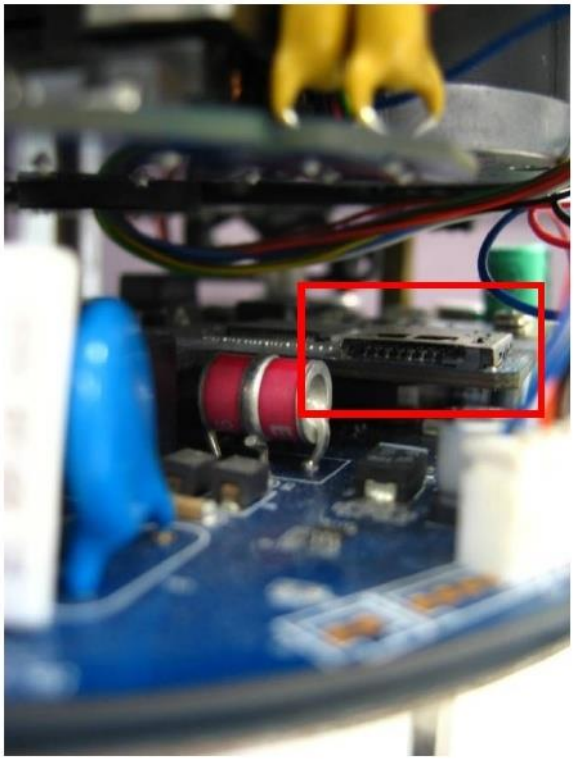


3. Dome Housing Plate: Lift the rubber cover and loosen three screws anticlockwise to remove dome housing plate.



4. Dome Housing: After removing the dome housing plate, take the dome housing off the dome by lifting it up.

5. SD card slot: After the dome housing is off the dome, the SD card slot becomes accessible. Insert the SD card into the slot on IP board.



eneo® is a registered trademark of Videor E. Hartig GmbH
Exclusive distribution through specialised trade channels only.

Videor E. Hartig GmbH
Carl-Zeiss-Straße 8 · 63322 Rödermark, Germany
Tel. +49 (0) 6074 / 888-0 · Fax +49 (0) 6074 / 888-100

www.videor.com
www.eneo-security.com

Technical changes reserved.
© Copyright by Videor E. Hartig GmbH 02/2014